

No. 80.

LEAVITT'S
FARMER'S
ALMANAC,
(IMPROVED)
1876.

BY WM. B. LEAVITT,

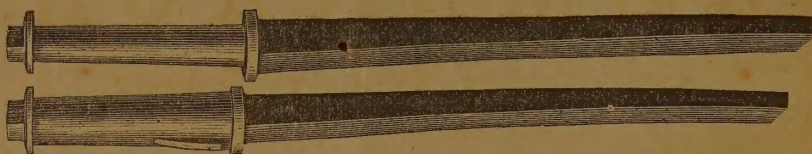
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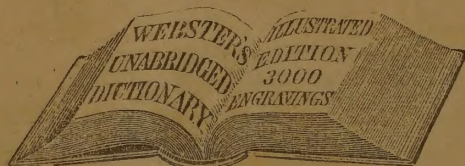
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No. LXXX.

LEAVITT'S
FARMER'S
ALMANACK,
IMPROVED,
AND MISCELLANEOUS YEAR BOOK,

FOR THE YEAR OF OUR LORD

1876;

BEING UNTIL JULY FOURTH, THE ONE HUNDREDTH OF AMERICAN
INDEPENDENCE.

CALCULATIONS AS TO THE LATITUDE AND LONGITUDE, SO AS TO ANSWER
FOR ALL THE NEW ENGLAND STATES.

Containing with the more than useful Astronomical Calculations, a larger
quantity and greater variety than are to be found
in any other Almanack of

MATTER, USEFUL, CURIOUS AND ENTERTAINING.

BY WILLIAM B. LEAVITT,

NEPHEW AND STUDENT OF DUDLEY LEAVITT,

TEACHER OF MATHEMATICS AND ASTRONOMY, WHO MADE THE CALCULA-
TIONS FROM 1797 TO 1857.



CALCULATIONS ACCORDING TO MEAN TIME.

CONCORD:
EDSON C. EASTMAN.

Entered according to Act of Congress, in the year 1875, by E. C. EASTMAN, in the Office of the
Librarian of Congress at Washington.

TO MY READERS.

The changes made in the almanac last year met with unqualified approval from the many patrons who have for years made use of this series of annuals. The change from apparent to clock time, made last year, is therefore continued in the present issue. That is to say, *apparent* time, or time shown by an accurate sun-dial, has been abandoned for *clock* time, or time as measured by a correct clock, which is now used by all astronomical computers, and required by the public, since time pieces are used instead of sun-dials.

The greatest difference between sun-time and clock-time is nearly 16 minutes.

If it is desired to have the time, as shown by a sun-dial, it can be obtained by reference to the column headed sun slow or fast of clock: add or subtract, as the case may be, the number of minutes in that column against the sun or moon's rising or setting for any required day of the month.

The miscellaneous portions of the almanac have been prepared with much greater care than heretofore, contributions having been furnished by several distinguished persons. Much of the agricultural matter is from the pen of the distinguished astronomer and horticulturist, Abiel Chandler of Concord, who is also one of the pupils of Dudley Leavitt.

The author thinks that his long experience in preparing the mathematical tables of the almanac has enabled him to secure the same accuracy which always characterized the labors of his uncle, the late Dudley Leavitt. Grateful for past favors extended to his labors, he wishes his patrons "a happy new year."

William B. Leavitt

Eclipses.

In 1876 there will be four eclipses, two of the Sun and two of the Moon, in the following order.

I. A partial eclipse of the Moon, March the 10th day, 1h. 26m. in the morning; visible and by calculation as follows: Beginning 26 minutes past midnight; middle, 1h. 26m.; end, 2h. 26m.; duration 2 hours; quantity eclipsed, nearly $\frac{1}{3}$ of the Moon's diameter, on the Moon's S. Limb.

II. An Annular eclipse of the Sun, March the 25th, 3h. 26m. in the afternoon; visible and by calculation as follows: Beginning, 4h. 7m.; middle, 5h. 1m.; end, 5h. 48m.; duration, one hour and 22 minutes; magnitude of the eclipse, a little more than $\frac{1}{2}$ of the Sun's diameter, on the Sun's N. limb. See the diagram.

The shadow of the eclipse first hits the earth, March 25, 0h. 44m. P. M., Concord mean time, in long. $93^{\circ} 38'$ W. of Washington, and lat. $5^{\circ} 41' S.$, which will be in the south Pacific ocean.

Central eclipse begins, 1h. 53m. in P. M., in long. $111^{\circ} 34'$ W. of W., in lat. $9^{\circ} N.$, which will be in the N. Pacific ocean. Central eclipse at noon, 3h. 57m. P. M., in longitude $52^{\circ} W.$ of W.

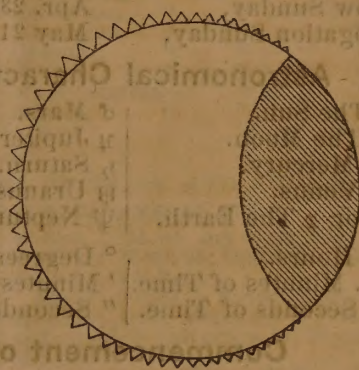
and lat $47^{\circ} 6' N.$, which will be in the Pacific ocean, a little W. of N. America. Central eclipse end on the Earth, 4h. 46m. P. M., long. $10^{\circ} 56' E.$ of W. in lat. $67^{\circ} N.$, which will be in the frozen region of the N. Ends on the Earth, 6h. 55m. P. M., in long. $10^{\circ} 15' E.$ of W. in lat. $52^{\circ} 24' N.$, which will be on the eastern border of N. America.

III. A partial eclipse of the Moon, September the 3d day, 4h. 28m. in the evening; of course, invisible to us, because the eclipse will end before the Moon rises.

IV. The fourth and last, this year, will be of the Sun, September the 17th day, 5h. 9m. in the evening; invisible to us, because the central line of the eclipse will pass over the S. Pacific ocean, beginning near the Equator, and extending in a graceful curve to a point near the S. Pole.

HEIGHTS OF THE WHITE MOUNTAINS.—Mt. Washington, 6,285 ft.; Mt. Adams, 5,800 ft.; Mt. Jefferson, 5,700 ft.; Mt. Monroe, 5,400 ft.; Mt. Clay, 5,400 ft.; Mt. Madison, 5,400 ft.; Mt. Franklin, 4,900 ft.; Mt. Pleasant, 4,800 ft.; Mt. Clinton, 4,200 ft.; Mt. Jackson, 4,100 ft.; Mt. Webster, 4,000 ft.

One of the Indian names of the Mountains was "Agiocochook," which signifies "the place of the spirit of the great forest," or according to Judge Potter, "the place of the storm spirit," and another "Waumbekketonethna," alluding to the whiteness of the Mountains. These noble hills were first visited in 1732 by a man named Darby Field.



Common Notes for 1876.

Dominical Letter	B A	Julian Period	6589
Golden Number	15	Year of the World (Usher)	5880
Solar Cycle	9	Year of the World (Jews)	5636
Epact	4	Year of the World (Septu)	7384
Roman Indiction	4	Year of the Olympiads	2652

Movable Festivals.

Septuagesima Sunday, Feb. 13	Holy Thursday, May 25
Quinquagesima Sunday, Feb. 27	Pentecost—Whit Sund. June 4
Ash Wednesday, Mar. 1	Trinity Sunday, June 11
First Sunday in Lent, Mar. 5	Corpus Christi, June 15
Palm Sunday, Apr. 9	Michaelmas Day, Sept. 19
Good Friday, Apr. 14	St. Andrew, Nov. 30
Easter Sunday, Apr. 16	1st Sunday in Advent, Dec. 3
Low Sunday, Apr. 23	St. Thomas, Dec. 21
Rogation Sunday, May 21	Christmas Day, Dec. 25

Astronomical Characters and Explanations.

☉ The Sun.	♂ Mars.	♊ Conjunction.
☾ The Moon.	♃ Jupiter.	☐ Quadrature.
☿ Mercury.	♄ Saturn.	♋ Opposition.
♀ Venus.	♅ Uranus.	♊ Ascending Node.
♁ or ♀ The Earth.	♆ Neptune.	♋ Descending Node.
h. Hours.	° Degrees.	N. North. S. South.
m. Minutes of Time.	' Minutes of Arc.	E. East. W. West.
s. Seconds of Time.	" Seconds of Arc.	

Commencement of the Four Seasons.

Spring quarter begins March 20th, 1h., morning.

Summer quarter begins June 20th, 10h., evening.

Fall quarter begins Sept. 22d, at noon.

Winter quarter begins Dec. 21st, 6h., morning.

Morning and Evening Star, &c.

Venus will be evening star till July the 14th, then morning star till May 6th, 1877.

The planet Mercury will make 6 conjunctions with the sun, 3 Inferior and 3 Superior conjunctions.

The Moon runs the highest, this year, March the 4th; and the lowest, March the 31st.

Venus will have the greatest brilliancy, June the 7th, and Aug. the 20th.

Equivalents for the units of the decimal system of weights and measures authorized by act of Congress in 1866.

Length, 1 meter = 39.37 inches.

Surface, 1 hectare = 2.47 acres.

Volume, 1 liter = .9 quart dry.

do. = 1.05 liquid.

Weights, 1 gram = 15.43 grains.

1 kilogram = 2.2 pounds.

SCRIPTURE LONG MEASURE.—Digit = 0.912 inch; palm, 3.648 inches; span, 10.944 inches; cubit, 1 ft. 9.888 inches; fathom, 7 ft. 3.552 inches; Sabbath day's journey, 3648 ft.

ANNUAL ELECTIONS, &c., IN NEW ENGLAND.

Maine, 2d Monday in Sept. ; Legislature meets 1st Wednesday in Jan.
 New Hampshire, 2d Tu. in March ; Legislature meets 1st Wed. in June.
 Vermont, 1st Tuesday in Sept. ; Legislature meets 2d Tuesday in Oct.
 Massachusetts, Tues. after 1st Mon. in Nov. ; Legis. meets 1st Wed. in Jan.
 Rhode Island, 1st Wednesday in April ; Legislature meets May and Jan.
 Connecticut, 1st Monday in April ; Legislature meets 1st Wed. in May.

THE AMERICAN UNION.

Virginia, settled by the English, 1607	Indiana, admitted to the Union, 1816
New York, by Dutch, 1614	Mississippi, " " " 1817
Massachusetts, by Puritans, 1620	Illinois, " " " 1818
New Hampshire, by Puritans, 1623	Alabama, " " " 1819
New Jersey, by Dutch, 1624	Maine, " " " 1820
Delaware, by Swedes and Fins, 1627	Missouri, " " " 1821
Maryland, by Irish Catholics, 1635	Michigan, " " " 1836
Connecticut, by Puritans, 1635	Arkansas, " " " 1836
R'de Island, by Roger Williams, 1636	Florida, " " " 1845
North Carolina, by English, 1650	Texas, " " " 1845
South Carolina, by Huguenots, 1670	Iowa, " " " 1846
Pennsylvania, by William Penn, 1682	Wisconsin, " " " 1848
Georgia, by Gen. Oglethorpe, 1733	California, " " " 1850
	Minnesota, " " " 1858
Vermont, admitted to the Union, 1791	Oregon, " " " 1859
Kentucky, " " " 1792	Kansas, " " " 1861
Tennessee, " " " 1796	West Virginia, " " " 1863
Ohio, " " " 1802	Nevada, " " " 1864
Louisiana, " " " 1811	

STATUTE WEIGHT OF A BUSHEL OF GRAIN AND OTHER ARTICLES IN THE NEW ENGLAND STATES.

Maine—Wheat 60 lbs. ; corn (shelled). 56 ; Barley, 48 ; Buckwheat, 48 ; Corn and Rye Meal, 50 ; Carrots, 50 ; Ruta Baga, Sugar Beet and Mangel Wurtzel, 64 ; Irish Potatoes, 60 ; Hair Plastering, 11.

New Hampshire—Wheat, 60 lbs. ; Corn (shelled), 56 ; Rye, 56 ; Oats, 32 ; Corn and Rye Meal, 50 ; Sweet or Irish Potatoes, 62 ; Beans, 50 ; Pease, 60.

Massachusetts—Wheat, 60 lbs. ; Corn or Rye, 56 ; Oats, 32 ; Barley or Buckwheat, 48 ; Cracked Corn, Corn

or Rye Meal, or any other Meal except Oat Meal, 50 ; Onions, 56 ; Salt, 70—a ton 2000 lbs.

Rhode Island—Indian and Rye Meal, 50 ; Irish Potatoes, 60 ; Onion and all other root crops, 50 ; Turnips, 50.

Connecticut—Wheat, 60 lbs. ; Rye or Corn, 56 ; Barley or Buckwheat, 48 ; Oats, 32 ; Ground Corn, or Rye, 59 ; Potatoes, Sugar Beet, Mangel Wurtzel and Ruta Baga, 60 ; Carrots, 55 ; Parsnips, 45 ; English Turnips, 50 ; White Beans, 60 ; Pease, 60 ; Onions, 50.

COLLEGE COMMENCEMENTS IN NEW ENGLAND.

Massachusetts Institute of Technology, Boston—Academical year from 1st Monday in October to 1st of June.

Harvard, at Cambridge, Mass.—3d Wednesday in June.

Tufts College, Medford, Mass.—2d Wednesday in July.

Amherst, at Amherst, Mass.—2d Thursday in July.

Williams, at Williamstown, Mass.—Last Wednesday in June.

Andover, Theo. Sem. at Andover, Mass.—1st Thursday in August.

Newton, Theo. Inst. at Newton Centre, Mass.—Last Wednesday in June.

Yale, at New Haven, Conn.—Last Thursday but one in June.

Trinity, at Hartford, Conn.—Thursday before July 4th.

Wesleyan, at Middletown, Ct.—3d Thursday of June.

University of Vermont and State Agricultural College, at Burlington—1st Thursday in August.

Middlebury, at Middlebury, Vt.—Thurs. following 2d Wed. in Aug.

Dartmouth, at Hanover, N. H.—Last Thursday but one of June.

Brown, at Providence, R. I.—3d Wednesday in June.

Bowdoin, at Brunswick, Me.—1st Wednesday in July.

Colby University, at Waterville, Me.—2d Wednesday in August.

Maine Wesleyan Sem. and Female College, at Kent's Hill.—Three terms of 13 weeks each. Fall term commences 2d Wednesday in August, Winter term, last Monday in Nov. Spring term, 2d Monday in March.

Bangor, Theo. Sem. at Bangor, Me.—Last Wednesday in July.

Norwich University, at Northfield, Vt.—4th Thursday in June.

SUN'S DECLINATION.

SOUTH.			SOUTH.			SOUTH.			SOUTH.			SOUTH.			SOUTH.		
D	°	'	D	°	'	D	°	'	D	°	'	D	°	'	D	°	'
1	22	52	6	22	22	11	21	41	16	20	50	21	19	48	26	18	38
2	22	47	7	22	15	12	21	31	17	20	38	22	19	35	27	18	22
3	22	42	8	22	7	13	21	22	18	20	27	23	19	21	28	18	7
4	22	36	9	22	0	14	21	12	19	20	14	24	19	7	29	17	52
5	22	29	10	21	51	15	21	1	20	20	2	25	18	53	30	17	35

Moon Changes, Fulls and Quarters.

▷ First Quarter, 4th day, 10h. 38m., in the morning.—E.

○ Full Moon, 11th day, 1h. 38m., in the morning.—S.

◐ Last Quarter, 18th day, 4h. 5m., in the morning.—S. E.

● New Moon, 26th day, 8h. 56m., in the morning.—S. E.

P. M.	D. W.	Observable Days, Aspects, Weather, &c.	☉ R. h. m.	☽ S. h. m.	●'s place	● SO. h. m.	R ● S. h. m.
1	Sa.	A mild, magnetic at-	7 30 4	39	feet	3 46	9 28
2	S.	♂ ♂ ☾. mosphere.	7 30 4	39	feet	4 39	10 34
3	Mo.	Mild, snow may fall.	7 30 4	40	head	5 23	11 43
4	Tu.	Low tides. Cold and	7 30 4	41	head	6 8	morn
5	W.	♀ gr't hel. lat. S. w'dy.	7 30 4	42	head	6 56	0 54
6	Th.	Snow or rain.	7 29 4	43	neck	7 51	2 5
7	Fr.	♂ S. 4h. 30m E. W'nd.	7 29 4	44	neck	8 48	3 29
8	Sa.	High wind and snow.	7 29 4	45	arms	9 53	4 50
9	S.	Temperate air.	7 29 4	46	arms	10 59	6 14
10	Mo.	☾ in Perigee. Colder.	7 28 4	47	br'st	morn	7 16
11	Tu.	High tides. Still colder.	7 28 4	48	br'st	0 6	rises
12	W.	☾ runs high. Gloomy.	7 28 4	49	heart	1 9	6 31
13	Th.		7 27 4	50	heart	2 6	7 49
14	Fr.	Gibbon d., 1794. Sud-	7 27 4	51	belly	2 57	9 4
15	Sa.	den changes & chilly.	7 26 4	53	belly	3 44	10 13
16	S.	Windy but mild atmos-	7 26 4	54	reins	4 29	11 21
17	Mo.	♀ ♂ ☾. phere.	7 25 4	55	reins	5 11	morn
18	Tu.	Low tides. The tempe-	7 25 4	56	sec's	5 53	0 25
19	W.	rature keeps up.	7 24 4	57	sec's	6 38	1 34
20	Th.	☉ ☐ to Nept., ♃ ♂ ☾.	7 23 4	59	sec's	7 23	2 39
21	Fr.	Rough and unsettled.	7 23 5	0	thi's	8 11	3 44
22	Sa.	☾ in Apog. Hi. winds.	7 22 5	1	thi's	8 59	4 46
23	S.	☾ runs low. Snow.	7 21 5	2	kn'es	9 51	5 46
24	Mo.	Cold and dry air.	7 21 5	3	kn'es	10 43	6 35
25	Tu.	♂ ♂ ☾.	7 20 5	5	kn'es	11 44	7 20
26	W.	High tides. Snow.	7 19 5	6	legs	ev. 23	sets.
27	Th.	♂ ♂ ☾. ♃ ♂ ☾. Mild.	7 18 5	7	legs	1 12	6 13
28	Fr.	High winds and snow.	7 17 5	8	feet	1 57	7 21
29	Sa.	♀ ♂ ☾. Mild season.	7 17 5	10	feet	2 39	8 28
30	S.	Monitor launched, '62.	7 16 5	11	feet	3 21	9 35
31	Mo.	♂ ♂ ☾. Ther. rises.	7 15 5	13	head	4 7	10 46



The State of the Atmosphere in General.—The month opens under the benign aspects of Jupiter, the Sun and Venus. The aerial ocean will be subject to sudden changes. Mercury high and low for the season. Barometrical changes, on the extremes. Considerable rain near the sea.

M.	W.	Day	Days'	D's	High	☉	●	The Farmer's Register, Domestic Economy, &c.
D.	D.	break. h. m.	length. h. m.	inc. h. m.	Water	s c m.	A. d.	
1	7	5 50	9 9	0 5	2 2	4	5	It is an old saying that "as SABBATH I. the days begin to lengthen the cold begins to strengthen," and it is as true as it is old, here in New Hampshire. As this appears to be Nature's order for this part of the world, there is no use
2	B	5 50	9 9	0 5	2 50	4	6	
3	2	5 50	9 10	0 6	3 32	5	7	
4	3	5 50	9 11	0 7	4 28	5	8	
5	4	5 51	9 12	0 8	5 34	6	9	
6	5	5 50	9 14	0 10	7 4	6	10	SABBATH II. grumbling about it, but the good farmer should be prepared for the cold by making his buildings as warm as possible. It is a dull prospect for the boys to leave the warm comfortable house to work in
7	6	5 50	9 14	0 10	8 24	6	11	
8	7	5 50	9 15	0 11	9 33	7	12	
9	B	5 50	9 16	0 12	10 30	7	13	
10	2	5 51	9 18	0 14	11 20	8	14	
11	3	5 50	9 18	0 14	morn.	8	15	SABBATH III. the cold frozen barn. Make the farm buildings, especially the stable, as warm and comfortable as possible. Stop up all the cracks and crannies you can find, and there will still be enough left to secure
12	4	5 51	9 19	0 15	0 6	9	16	
13	5	5 50	9 20	0 16	0 47	9	17	
14	6	5 50	9 24	0 20	1 23	9	18	
15	7	5 50	9 27	0 23	2 11	10	19	
16	B	5 50	9 28	0 24	2 58	10	20	SABBATH IV. good ventilation. By so doing, you will save more than the amount of labor by the healthy appearance of your cattle and the smaller amount of food required to keep them in a thriving condition.
17	2	5 49	9 30	0 26	3 20	10	21	
18	3	5 49	9 31	0 27	4 6	11	22	
19	4	5 49	9 33	0 29	5 10	11	23	
20	5	5 48	9 36	0 32	6 19	11	24	
21	6	5 48	9 37	0 33	7 33	12	25	SABBATH V. dition.
22	7	5 47	9 39	0 35	8 38	12	26	
23	B	5 47	9 41	0 37	9 32	12	27	
24	2	5 46	9 42	0 38	10 16	12	28	
25	3	5 46	9 45	0 41	11 5	13	29	
26	4	5 45	9 47	0 43	11 33	13	●	SABBATH V. dition.
27	5	5 44	9 49	0 45	eve. 8	13	1	
28	6	5 43	9 51	0 47	0 40	13	2	
29	7	5 42	9 53	0 49	1 10	13	3	
30	B	5 42	9 55	0 51	1 44	14	4	
31	2	5 41	9 58	0 54	2 18	14	5	

SUN'S DECLINATION.

SOUTH.		SOUTH.		SOUTH.		SOUTH.		SOUTH.		SOUTH.	
D	° /	D	° /	D	° /	D	° /	D	° /	D	° /
1	17 3	6	15 35	11	14 0	16	12 18	21	10 32	26	8 42
2	16 46	7	15 16	12	13 40	17	11 58	22	10 11	27	8 20
3	16 29	8	14 57	13	13 20	18	11 37	23	9 49	28	7 57
4	16 11	9	14 38	14	13 0	19	11 15	24	9 28	29	7 34
5	15 53	10	14 19	15	12 39	20	10 54	25	9 5		

Moon Changes, Fulls and Quarters.

☾ First Quarter, 2d day, 9h. 8m., in the evening.—S. W.

☾ Full Moon, 8th day, 1h. 2m., in the evening.—N.

☾ Last Quarter, 16th day, 0h. 11m., in the evening.—S. W.

☾ New Moon, 25th day, 1h. 34m., in the morning.—N.

D. M.	D. W.	Observable Days, Aspects, Weather, &c.	☾ R.	☾ S.	☾'s	☾ SO.	R. ☾ S
			h. m.	h. m.	place	h. m.	h. m.
1 Tu.	2 S.	7h. 4m. M. Wdy.	7 15	5 14	head	4 52	11 55
2 W.		Low tides. Mitigation	7 14	5 15	neck	5 42	morn
3 Th.		of c'd. Rain or snow.	7 13	5 16	neck	6 37	1 7
4 Fr.		Peace Conf. at Wash.'61	7 11	5 18	arms	7 37	2 22
5 Sa.		☾ stat. R'n at sea level.	7 10	5 19	arms	8 36	3 42
6 S.		☾ runs high. Cold.	7 9	5 20	br'st	9 46	4 56
7 Mo.		☾ in Per. More mild.	7 8	5 21	br'st	10 48	5 59
8 Tu.		Perhaps snow.	7 7	5 23	heart	11 47	6 49
9 W.		High tides.	7 6	5 24	heart	morn	rises.
10 Th.		Rude weath. & stormy.	7 4	5 25	belly	0 42	6 40
11 Fr.		Rain at sea level.	7 3	5 27	belly	1 33	7 55
12 Sa.		☾ inf. ☾ ☾. Moist.	7 2	5 28	reins	2 19	9 3
13 S.		Septuagesima Sunday.	7 0	5 29	reins	3 41	10 10
14 Mo.			6 58	5 31	reins	3 47	11 19
15 Tu.		Unusual warmth.	6 58	5 32	sec's	4 31	morn
16 W.		Low tides. Frosty.	6 56	5 33	sec's	5 16	0 25
17 Th.		☾ ☾ ☾. ☾ ☾ ☾. Foggy.	6 55	5 34	thi's	6 3	1 30
18 Fr.		☾ in Apogee. Cold.	6 54	5 36	thi's	6 53	2 36
19 Sa.		☾ runs low. ☾ ☾ ☾.	6 52	5 37	thi's	7 44	3 38
20 S.		The thermometer rises.	6 51	5 38	kne's	8 34	4 31
21 Mo.		Gordon, the slaver,	6 49	5 39	kne's	9 26	5 16
22 Tu.		hung, 1862. Mild.	6 48	5 41	legs	10 17	5 54
23 W.		☾ 5h. 27m. M.	6 46	5 42	legs	11 5	6 27
24 Th.			6 45	5 43	legs	11 54	6 47
25 Fr.		High tides. Sn'w or r'n.	6 44	5 44	feet	ev. 36	sets.
26 Sa.		Snow.	6 42	5 46	feet	1 20	7 27
27 S.		Quinquagesima Sund.	6 40	5 47	head	2 6	8 38
28 Mo.		☾ ☾ ☾. ☾ ☾ ☾. Cold.	6 38	5 48	head	2 51	9 47
29 Tu.		The month closes windy.	6 37	5 49	neck	3 40	11 1



The hands upon the dial of the atmospheric clock do not show us many aerial changes this month, but of course, they will occur. When the planets do speak they do not inform us of much extreme cold weather. Much high winds during the month.

M.	W.	Day	Days'	D's	High	☉	●	The Farmer's Register, Domestic Economy, &c.	
D.	D.	break. h. m.	length. h. m.	inc. h. m.	Water	s c m.	A. d.		
1	3	5 40	9 59	0 55	3 1	14	6	A good supply of wood should be cut during the pleasant days. Farmers having a wood lot near towns or cities often find it profitable to bring wood to market to	
2	4	5 39	10 10	0 57	3 54	14	7		
3	5	5 38	10 30	0 59	5 7	14	8		
4	6	5 37	10 71	3 6	41	14	9		
5	7	5 36	10 91	5 8	7	14	10		
6	B. 5	35	10 11	1 7	9 27	14	11	SABBATH VI.	
7	2	5 34	10 13	1 9	10 21	14	12	sell. If wood is left out of doors to dry, it will keep better and look brighter if it is piled with the split side down. Many people have yet to learn that the good looks of an article and a good price always	
8	3	5 29	10 16	1 12	11 7	14	13		
9	4	5 32	10 18	1 14	11 47	15	14		
10	5	5 32	10 21	1 17	morn	15	15		
11	6	5 31	10 24	1 20	0 23	15	16		
12	7	5 29	10 26	1 22	0 56	15	17	SABBATH VII.	
13	B. 5	28	10 29	1 25	1 30	15	18	go together. Farming tools should be put in order for spring work. In many cases a coat of paint will not only improve the looks, but also protect tools from exposure to the weather. Learn your	
14	2	5 27	10 33	1 29	2 3	15	19		
15	3	5 25	10 34	1 30	2 42	14	20		
16	4	5 24	10 37	1 33	3 25	14	21		
17	5	5 22	10 39	1 35	4 18	14	22		
18	6	5 21	10 42	1 38	5 30	14	23	SABBATH VIII.	
19	7	5 20	10 45	1 41	6 53	14	24		
20	B. 5	18	10 47	1 43	8 4	14	25		
21	2	5 17	10 50	1 46	9 6	14	26		
22	3	5 16	10 53	1 49	9 55	14	27		
23	4	5 15	10 56	1 52	10 35	14	28	See that the rats and mice do not find a happy home in	
24	5	5 14	10 58	1 54	11 12	14	29		
25	6	5 11	11 0	1 56	11 43	13	30		
26	7	5 10	11 42	0	eve	14	13		
27	B. 5	8	11 72	3 0	47	13	2	SABBATH IX.	
28	2	5 6	11 10	2 6	1	19	13	your granary.	
29	3	5 3	11 12	2 8	1 58	13	4		

SUN'S DECLINATION.

SOUTH.			SOUTH.			SOUTH.			SOUTH.			NORTH.			NORTH.		
D	°	'	D	°	'	D	°	'	D	°	'	D	°	'	D	°	'
1	7	15	6	5	19	11	3	22	16	1	24	21	0	34	26	2	32
2	6	52	7	4	56	12	2	58	17	1	0	22	0	58	27	2	55
3	6	29	8	4	33	13	2	35	18	0	37	23	1	21	28	3	19
4	6	6	9	4	10	14	2	11	19	0	513	24	1	45	29	3	42
5	5	42	10	3	46	15	1	47	20	0	N10	25	2	8	30	4	6

Moon Changes, Fulls and Quarters.

☾ First Quarter, 3d day, 5h. 2m., in the morning.—N.

○ Full Moon, 10th day, 1h. 26m., in the morning.—S.

☾ Last Quarter, 17th day, 8h. 39m., in the evening.—N. E.

● New Moon, 25th day, 3h. 26m., in the evening.—S. W.

M.	W.	Observable Days, Aspects, Weather, &c.	☾ R.	☾ S.	●'s	● SO.	R. ● S.
D.	D.		h. m.	h. m.	place	h. m.	h. m.
1	W.	Ash Wednesday. <i>Fair.</i>	6 35	5 51	neck	4 32	morn
2	Th.	<i>Mild.</i>	6 34	5 52	arms	5 29	0 14
3	Fr.	High tides.	6 32	5 53	arms	6 30	1 30
4	Sa.	☾ runs high. <i>C'd and</i>	6 30	5 54	br'st	7 35	2 43
5	S.	1st S. in Lent. <i>damp.</i>	6 28	5 55	br'st	8 38	3 51
6	Mo.	☾ in Perigee. <i>A warm,</i>	6 27	5 57	heart	9 37	4 45
7	Tu.	<i>magnetic atmosphere.</i>	6 25	5 58	heart	10 20	5 25
8	W.	☾ S. 4h. 55m. <i>M.</i>	6 24	5 59	heart	11 21	5 44
9	Th.		6 22	6 0	belly	morn	6 18
10	Fr.	High tides. <i>Rain or</i>	6 20	6 1	belly	0 11	rises.
11	Sa.	<i>snow.</i>	6 18	6 2	reins	0 53	7 51
12	S.	Jacksonville cap. '62.	6 17	6 4	reins	1 38	9 0
13	Mo.	<i>Rain. Cold.</i>	6 15	6 5	sec's	2 23	10 7
14	Tu.	An'l t'n m'ting in N.H.	6 13	6 6	sec's	3 7	11 15
15	W.	☾ ☽ ☾. <i>Snow or rain.</i>	6 12	6 7	sec's	3 55	morn
16	Th.		6 10	6 8	thi's	4 43	0 26
17	Fr.	Low tides. <i>Windy and</i>	6 8	6 9	thi's	5 34	1 25
18	Sa.	☾ runs low. <i>stormy.</i>	6 6	6 10	kn'es	6 24	2 20
19	S.	<i>Fair and cold.</i>	6 5	6 12	kn'es	7 17	3 1
20	Mo.	☾ S. 4h. 8m. <i>Mild.</i>	6 3	6 13	kn'es	8 8	3 57
21	Tu.	<i>Cold for season.</i>	6 1	6 14	legs	8 57	4 26
22	W.	<i>Windy, probably snow.</i>	5 59	6 15	legs	9 44	4 52
23	Th.	Bat. Winchester '62.	5 58	6 16	feet	10 29	5 13
24	Fr.	<i>A little more snow.</i>	5 56	6 17	feet	11 14	5 33
25	Sa.	High tides.	5 54	6 18	head	11 59	sets.
26	S.	<i>Fair and cold.</i>	5 52	6 19	head	ev. 44	7 30
27	Mo.	<i>Fair.</i>	5 51	6 20	neck	1 33	8 46
28	Tu.	☾ ☽ ☾. <i>Rain.</i>	5 49	6 22	neck	2 25	10 1
29	W.	☽ ☽ ☾ ☽ ☽. <i>Windy.</i>	5 47	6 23	neck	3 22	11 22
30	Th.	☾ in Perigee.	5 45	6 24	arms	4 23	morn
31	Fr.	<i>Warmer.</i>	5 44	6 25	arms	5 25	0 33



The earth in its course among the planets will not help form but a few aspects, such as tend to disturb the atmosphere. From the 19th to the 26th, cold, stormy and windy. The indication now is, a cold spring.

M.	W.	Day	Day's	D's	High	☉	●	The Farmer's Register, Domestic Economy, &c.	
D.	D.	break. h. m.	length. h. m.	inc. h. m.	Water	°	A.		
1	4	5	2 11	16 2	12	2 43	13	5	As soon as the snow will
2	5	5	0 11	18 2	14	3 39	12	6	permit, examine the fruit
3	6	4	59 11	21 2	17	4 58	12	7	trees and see if any have
4	7	4	57 11	24 2	20	6 38	12	8	been girdled by mice or rab-
5	A.	4	56 11	27 2	23	8 10	12	9	bits. If the inner bark has
6	2	4	54 11	30 2	26	9 18	11	10	SABBATH X.
7	3	4	53 11	33 2	29	9 58	11	11	not been entirely eaten away,
8	4	4	52 11	35 2	31	10 46	11	12	poultice the tree with cow
9	5	4	50 11	38 2	34	11 23	11	13	dung and loam. If entirely
10	6	4	47 11	41 2	37	11 54	10	14	eaten away set grafts, insert-
11	7	4	46 11	44 2	40	morn 10	15	15	ing one end in the lower bark
12	A.	4	44 11	47 2	43	0 27	10	16	and the other in the upper
13	2	4	43 11	50 2	46	0 59	10	17	bark or that above the wound.
14	3	4	41 11	53 2	49	1 33	10	18	SABBATH XI.
15	4	4	38 11	55 2	51	2 10	9	19	But it is less trouble to pre-
16	5	4	37 11	58 2	54	2 52	9	20	vent than to cure ravages.
17	6	4	35 12	1 2	57	3 45	9	21	This is easily done by tread-
18	7	4	33 12	4 3	0	4 49	8	22	ing the first heavy snow firm-
19	A.	4	31 12	7 3	3	6 10	8	23	ly around the base of the tree,
20	2	4	30 12	10 3	6	7 29	8	24	making it too hard for the
21	3	4	28 12	13 3	9	8 34	8	25	mice to tunnel through. The
22	4	4	26 12	16 3	12	9 25	7	26	SABBATH XII.
23	5	4	24 12	18 3	14	10 5	7	27	rough, loose bark on the ap-
24	6	4	23 12	21 3	17	10 42	7	28	ple trees furnishes a good
25	7	4	20 12	24 3	20	11 16	6	29	place for the deposit of eggs
26	A.	4	18 12	27 3	23	11 48	6	1	which produce the borers, so
27	2	4	17 12	29 3	25	ev. 24	6	2	injurious to apple trees. As
28	3	4	15 12	33 3	29	1 1	5	3	soon as the eggs hatch, the
29	4	4	12 12	36 3	32	1 44	5	4	young worms under the shel-
30	5	4	10 12	39 3	35	2 33	5	5	SABBATH XIII.
31	6	4	7 12	41 3	37	3 34	4	6	ter of the outer, makes its

way to the inner bark and commences its work of destruction, staying about two years, and then coming to lay its eggs, and then dies.

SUN'S DECLINATION.

NORTH.			NORTH.			NORTH.			NORTH.			NORTH.			NORTH.		
D	°	'	D	°	'	D	°	'	D	°	'	D	°	'	D	°	'
1	4	51	6	6	45	11	8	37	16	10	24	21	12	8	26	13	47
2	5	14	7	7	8	12	8	58	17	10	45	22	12	28	27	14	6
3	5	39	8	7	30	13	9	20	18	11	6	23	12	48	28	14	25
4	6	0	9	7	52	14	9	42	19	11	27	24	13	8	29	14	43
5	6	23	10	8	15	15	10	3	20	11	48	25	13	27	30	15	2

Moon Changes, Fulls and Quarters.

▷ First Quarter, 1st day, 11h. 27m., in the morning.—W.

○ Full Moon, 8th day, 2h. 55m., in the evening.—N. E.

◁ Last Quarter, 16th day, 3h. 52m., in the evening.—N. W.

● New Moon, 24th day, 2h. 22m., in the morning.—N. E.

▷ First Quarter, 30th day, 5h. 45m., in the evening.—S.

M.	W.	Observable Days, Aspects, Weather, &c.	☺ R. h. m.	☾ S. h. m.	●'s place	● SO. h. m.	R. ● S. h. m.
D.	D.						
1	Sa.	High tid. Sud'n thaw.	5 42	6 26	br'st	6 30	1 41
2	S.	☾ runs high. probably	5 40	6 27	br'st	7 29	2 40
3	Mo.	♀ in Perihelion. flood.	5 39	6 28	heart	8 25	3 20
4	Tu.	A sudden change and	5 37	6 30	heart	9 16	3 58
5	W.	cold.	5 35	6 31	belly	10 2	4 21
6	Th.	A sudden change again	5 33	6 32	belly	10 48	4 40
7	Fr.	Low tides. to a warm,	5 32	6 33	reins	11 31	5 3
8	Sa.	magnetic air.	5 30	6 34	reins	morn	rises
9	S.	Palm Sund. Cold rain.	5 28	6 35	reins	0 16	7 50
10	Mo.	Sudden changes.	5 27	6 36	sec's	0 59	8 59
11	Tu.	Ft. Sumter bomb. '61.	5 25	6 37	sec's	1 46	10 5
12	W.	☿ ☽ ☾.	5 23	6 38	th'is	2 35	11 13
13	Th.	☾ in Apog. Hi. Winds.	5 22	6 40	th'is	3 26	morn
14	Fr.	Good Friday. Windy.	5 20	6 41	kn'es	4 17	0 12
15	Sa.	Hi. tid. Warm & thaw.	5 19	6 42	kn'es	5 9	1 3
16	S.	Easter Sund. Stormy.	5 17	6 43	kn'es	5 58	1 45
17	Mo.	Dry, cl'dy & hi. winds.	5 15	6 44	legs	6 47	2 22
18	Tu.	Fredericksburg cap. '62	5 14	6 45	legs	7 35	2 52
19	W.	☿ ☽ ☾. High winds.	5 12	6 46	feet	8 21	3 15
20	Th.	Sudden changes.	5 11	6 47	feet	9 5	3 36
21	Fr.	Clouds increasing.	5 9	6 48	feet	9 49	3 55
22	Sa.	♀ sup. ☽ ☾. ☿ ☽ ☾.	5 8	6 50	head	10 34	4 15
23	S.	Low Sund. Rivers high.	5 6	6 51	head	11 23	4 40
24	Mo.	Low tide. ♀ ☽ ☾. Wet.	5 5	6 52	neck	ev. 14	sets.
25	Tu.	High winds and rain.	5 3	6 53	neck	1 13	9 11
26	W.	☾ in Perigee. ☿ ☽ ☾.	5 2	6 54	arms	2 14	10 20
27	Th.	♀ ☽ ☾. A cold storm.	5 0	6 55	arms	3 17	11 32
28	Fr.		4 59	6 56	br'st	4 26	morn
29	Sa.	Bat. Bridgpt, Ala. '62	4 58	6 57	br'st	5 25	0 36
30	S.	High tides. Fair.	4 56	6 59	heart	6 22	1 23

SUN'S DECLINATION.

NORTH.		NORTH.		NORTH.		NORTH.		NORTH.		NORTH.	
D	° ' "	D	° ' "	D	° ' "	D	° ' "	D	° ' "	D	° ' "
1	15 19	6	16 45	11	18 5	16	19 17	21	20 33	26	21 27
2	15 37	7	17 3	12	18 20	17	19 31	22	20 45	27	21 37
3	15 54	8	17 18	13	18 35	18	19 44	23	20 56	28	21 46
4	16 13	9	17 34	14	18 49	19	19 57	24	21 7	29	21 55
5	16 29	10	17 50	15	19 4	20	20 9	25	21 17	30	22 3

Moon Changes, Fulls, and Quarters.

- Full Moon, 9th day, 5h. 8m., in the morning.—W.
 ☾ Last Quarter, 16th day, 8h. 42m., in the morning.—S. W.
 ● New Moon, 23d day, 10h. 40m., in the morning.—S. E.
 ☽ First Quarter, 30th day, 1h. 3m., in the morning.—W.

M.	D.	W.	Observable Days, Aspects, Weather, &c.	☺ R.	☾ S.	●'s	● SO.	R. ● S.
D.	D.	D.		h. m.	h. m.	place	h. m.	h. m.
1	Mo.		The month opens with	4 55	6 59	heart	7 13	2 0
2	Tu.		Surren. at Pulaski, no	4 53	7 1	belly	8 1	2 25
3	W.		Tenn., '62. aspects.	4 52	7 2	belly	8 45	2 45
4	Th.		Yorktown evac. '62.	4 51	7 3	reins	9 29	3 6
5	Fr.		♀ gr. elong. 45° 26' E.	4 49	7 4	reins	10 13	3 24
6	Sa.		☿ ☐ ☉. Cold, bleak air.	4 48	7 5	reins	10 56	3 45
7	S.		Windy and showery.	4 47	7 6	sec's	11 41	4 5
8	Mo.		High tides. W'dy & dry.	4 46	7 7	sec's	morn	rises
9	Tu.		♂ ☿ ☾. Fine weather.	4 45	7 8	th'is	0 28	8 59
10	W.		Norfolk, Va., cap. '62.	4 43	7 9	th'is	1 18	10 2
11	Th.		A cold rain storm.	4 42	7 10	th'is	2 10	10 57
12	Fr.		☾ runs low.	4 41	7 12	kn'es	3 1	11 42
13	Sa.		Cold and wet.	4 40	7 13	kn'es	3 52	morn
14	S.			4 39	7 14	legs	4 43	0 22
15	Mo.		Ft. Darling, Va., att. '62	4 38	7 15	legs	5 29	0 51
16	Tu.		Low tides. Sud'n chan.	4 37	7 16	legs	6 14	1 16
17	W.		♂ ☿ ☾. ♀ ☿ ☉. Fine.	4 36	7 17	feet	6 58	1 37
18	Th.		No planetary	4 35	7 18	feet	7 41	1 56
19	Fr.		reading.	4 34	7 19	head	8 34	2 24
20	Sa.		Rain.	4 33	7 20	head	9 10	2 37
21	S.		Rogation S. Dull air.	4 32	7 21	neck	10 0	3 3
22	Mo.		Very sudden	4 32	7 22	neck	10 54	3 34
23	Tu.		High tides. changes.	4 31	7 23	arms	11 55	sets
24	W.		Wind and rain.	4 30	7 24	arms	ev. 59	9 13
25	Th.		Holy Th. ♀ ☿ ☾. ♂ ☿ ☉	4 29	7 24	br'st	2 57	10 19
26	Fr.		♀ ☿ ☾. Bleak air, [☾	4 28	7 25	br'st	3 14	11 17
27	Sa.		Sudden changes.	4 28	7 26	heart	4 13	11 56
28	S.		♂ ☿ ☉. C'ld rain st'rm.	4 28	7 27	heart	5 9	morn
29	Mo.		Turbulent weather.	4 27	7 28	belly	5 59	0 27
30	Tu.		Low tides. Fair.	4 26	7 29	belly	6 45	0 52
31	W.		A cold storm.	4 26	7 30	belly	7 28	1 12

SUN'S DECLINATION.

NORTH.	NORTH.	NORTH.	NORTH.	NORTH.	NORTH.
D	D	D	D	D	D
1 22 8	6 22 43	11 23 8	16 23 23	21 23 27	26 23 21
2 22 16	7 22 40	12 23 12	17 23 25	22 23 27	27 23 19
3 22 23	8 22 51	13 23 15	18 23 26	23 23 26	28 23 16
4 22 30	9 22 59	14 23 18	19 23 27	24 23 25	29 23 13
5 22 37	10 23 4	15 23 20	20 23 27	25 23 23	30 23 9

Moon Changes, Fulls and Quarters.

- Full Moon, 6th day, 7h. 53m., in the evening.—S. E.
 ☾ Last Quarter, 14th day, 10h. 30m., in the evening.—N. E.
 ● New Moon, 21st day, 5h. 32m., in the evening.—W.
 ☽ First Quarter, 28th day, 10h. 29m., in the morning.—N. E.

M.	W.	Observable Days, Aspects, Weather, &c.	☾ R	☾ S	●'s	● so.	R ● S.
D.	D.		h. m.	h. m.	place	h. m.	h. m.
1 Th.		Cold rains.	4 25	7 30	reins	8 12	1 30
2 Fr.		☽ in ☿. Showers.	4 25	7 31	reins	8 54	1 47
3 Sa.		Cool.	4 25	7 32	sec's	9 39	2 6
4 S.		Whit Sun. Fair & warm.	4 24	7 32	sec's	10 25	2 35
5 Mo.		☿ ☿ ☿. Warm	4 24	7 33	thi's	11 14	3 2
6 Tu.		High tides. and dry.	4 23	7 34	th's	morn	rises.
7 W.		Sudden squalls of wind,	4 23	7 34	th's	0 5	8 50
8 Th.		☾ runs low. with thunder.	4 23	7 35	th's	0 55	9 39
9 Fr.		☾ in Apogee.	4 23	7 35	th's	1 48	10 19
10 Sa.		Rainy.	4 22	7 36	legs	2 37	10 52
11 S.		Trinity Sunday.	4 22	7 36	legs	3 25	11 15
12 Mo.		High winds.	4 22	7 37	legs	4 8	11 39
13 Tu.		☿ ☿ ☿.	4 22	7 37	feet	4 52	11 57
14 W.		Low tides. Fair.	4 22	7 38	feet	5 34	morn.
15 Th.		Corpus Christi ☽ Inf ☿ ☼	4 22	7 38	head	6 16	0 16
16 Fr.		Showers and prob'ly thun.	4 22	7 38	head	7 0	0 34
17 Sa.		Cool and windy.	4 22	7 39	head	7 46	0 59
18 S.		1st Sunday after Trinity.	4 23	7 39	neck	8 37	1 25
19 Mo.		Fair.	4 23	7 40	neck	9 32	1 56
20 Tu.		☼ enters ☿.	4 23	7 40	arms	10 38	2 42
21 W.		High tides. Dense clouds.	4 23	7 40	arms	11 44	sets.
22 Th.		☾ runs high. ☾ in Perigee	4 23	7 40	br'st	ev. 53	9 0
23 Fr.		☽ ☿ ☿.	4 24	7 40	br'st	1 57	9 47
24 Sa.			4 24	7 40	heart	2 55	10 23
25 S.		2d Sunday after Trinity.	4 24	7 40	heart	3 50	10 52
26 Mo.			4 25	7 40	belly	4 39	11 13
27 Tu.		Windy.	4 25	7 40	belly	5 25	11 36
28 W.		Low tides. Frequent	4 25	7 40	reins	6 10	11 54
29 Th.		showers.	4 26	7 40	reins	6 53	morn.
30 Fr.			4 26	7 40	sec's	7 37	0 15

SUN'S DECLINATION.

NORTH.		NORTH.		NORTH.		NORTH.		NORTH.		NORTH.	
D	'	D	'	D	'	D	'	D	'	D	'
1	23 4	6	22 37	11	22 1	16	21 15	21	20 20	26	19 17
2	23 0	7	22 31	12	21 52	17	21 5	22	20 9	27	19 4
3	22 56	8	22 24	13	21 44	18	20 54	23	19 56	28	18 50
4	22 49	9	22 17	14	21 35	19	20 43	24	19 43	29	18 35
5	22 43	10	22 9	15	21 25	20	20 32	25	19 30	30	18 20

Moon Changes, Fulls and Quarters.

○ Full Moon, 6th day, 10h. 53m., in the morning.—N.

☾ Last Quarter, 14th day, 9h. 10m., in the morning.—S. W.

● New Moon, 21st day, 0h. 10m., in the morning.—N.

☽ First Quarter, 27th day, 10h. 34m., in the evening.—S. W.

D. M.	D. W.	Observable Days, Aspects, Weather, &c.	☼ R. h. m.	☾ S. h. m.	●'s place	● SO. h. m.	R. ● S. h. m.
1 Sa.		☼ in Apog. Thunder.	4 27	7 40	sec's	8 22	0 38
2 S.		3d S. af. Trin. ☽ ☾ ☼.	4 27	7 40	sec's	9 10	1 4
3 Mo.			4 28	7 40	th'is	10 1	1 35
4 Tu.		☼ in Apogee.	4 28	7 40	th'is	10 52	2 14
5 W.		☼ runs low. ☽ ☾ ☼.	4 29	7 39	kn'es	11 44	2 57
6 Th.		High tides. Showers.	4 29	7 39	kn'es	morn	rises
7 Fr.		☽ s. 8h. 16m. E. ☼ ds.	4 30	7 39	kn'es	0 33	8 52
8 Sa.		Windy.	4 31	7 38	legs	1 21	9 19
9 S.		4th S. af. Tr. Chang'ble.	4 32	7 38	legs	2 8	9 43
10 Mo.		☽ ☾ ☼. Winds & thun.	4 33	7 37	feet	2 51	10 4
11 Tu.		☽ sets 8h. 20m. E.	4 33	7 37	feet	3 34	10 21
12 W.		Good hay weather un-	4 34	7 36	feet	4 15	10 40
13 Th.		less showers prevent.	4 35	7 36	head	4 58	11 2
14 Fr.		Low tides. ☽ Inf. ☾ ☼.	4 36	7 35	head	5 41	11 24
15 Sa.		Thunder showers.	4 36	7 34	neck	6 28	11 53
16 S.		5th S. af. Trin. Cool.	4 37	7 34	neck	7 20	morn
17 Mo.		Warmer.	4 38	7 33	arms	8 20	0 33
18 Tu.		Sultry; thund'r show'r.	4 39	7 33	arms	9 23	1 18
19 W.		☼ runs high. ☽ ☾ ☼.	4 40	7 32	br'st	10 29	2 14
20 Th.		☼ in Per. ☽ ☾ ☼. Hot.	4 41	7 31	br'st	11 37	3 22
21 Fr.		High tides. ☽ ☾ ☼.	4 42	7 30	heart	ev. 39	sets.
22 Sa.		☽ ☾ ☽. Some cloudy.	4 43	7 29	heart	1 36	8 48
23 S.		6th Sund, aft. Trin.	4 44	7 28	belly	2 29	9 14
24 Mo.			4 44	7 28	belly	3 18	9 38
25 Tu.		☽ s. 7h. 4m. E. Windy.	4 45	7 27	reins	4 4	9 58
26 W.		Thunder.	4 46	7 26	reins	4 49	10 19
27 Th.		Low tides.	4 47	7 25	sec's	5 33	10 39
28 Fr.		Push on with your	4 48	7 23	sec's	6 19	11 6
29 Sa.		☽ ☾ ☼. haying.	4 49	7 22	sec's	7 7	11 36
30 S.		7th Sund. aft. Trin.	4 50	7 21	th'is	7 57	morn
31 Mo.			4 51	7 20	th'is	8 48	0 13



The atmosphere during the first half of the month will be greatly disturbed by numerous aspects; much wind and poor hay weather. After that, much good hay-weather; but keep an eye on the lookout, for once in a while up pops a shower, and down goes your hay.

M.	W.	Day	Days'	D's	High	sc	●	The Farmer's Register, Domestic Economy, &c.
D.	D.	break.	length.	decr.	Water	m.	A.	
		h. m.	h. m.	h. m.			d.	
1	7	2 12	15 13	0 4	7 49	3	10	Haying should be com-
2	A. 2	13	15 13	0 4	8 50	4	11	SABBATH XXVII.
3	2	2 14	15 12	0 5	9 41	4	12	menced as early in this
4	3	2 15	15 12	0 5	10 24	4	13	month as possible. It is
5	4	2 16	15 10	0 7	11 5	4	14	hard, tiresome work even
6	5	2 17	15 10	0 7	11 41	4	15	with mowing machines, hay
7	6	2 18	15 9	0 8	morn	4	16	tadders and horse rakes, but
8	7	2 20	15 7	0 10	0 14	5	17	by beginning early and tak-
9	A. 2	21	15 6	0 11	0 48	5	18	ing time by the forelock it
10	2	2 22	15 4	0 13	1 19	5	19	SABBATH XXVIII.
11	3	2 23	15 4	0 13	1 54	5	20	ought to be finished up be-
12	4	2 24	15 2	0 15	2 26	5	21	fore the first of September,
13	5	2 25	15 1	0 16	3 6	5	22	after that the Sun does not
14	6	2 26	14 59	0 18	3 53	5	23	dry hay anything near so
15	7	2 28	14 58	0 19	4 55	6	24	fast as it does in July and
16	A. 2	29	14 57	0 20	6 15	6	25	August. Clover should be
17	2	2 30	14 55	0 22	7 46	6	26	attended to first; cut it as
18	3	2 31	14 54	0 23	9 3	6	27	SABBATH XXIX.
19	4	2 32	14 52	0 25	10 5	6	28	soon as it is in full bloom,
20	5	2 34	14 50	0 27	10 59	6	29	but do not cut it until the
21	6	2 35	14 48	0 29	11 45	6	●	dew is well dried off in the
22	7	2 37	14 46	0 31	ev 25	6	1	forenoon. Begin to rake or
23	A. 2	39	14 44	0 33	1 4	6	2	pitch it in time to get it all
24	2	2 40	14 44	0 33	1 41	6	3	put up before the dew falls.
25	3	2 43	14 42	0 35	2 17	6	4	Hay caps should always be
26	4	2 44	14 40	0 37	2 58	6	5	SABBATH XXX.
27	5	2 46	14 38	0 39	3 44	6	6	put on clover, then it can
28	6	2 47	14 35	0 42	4 41	6	7	stand out the next day with-
29	7	2 49	14 33	0 44	5 55	6	8	out any care, rain or shine.
30	A. 2	50	14 31	0 46	7 13	6	9	The third day if the weather
31	2	2 51	14 29	0 48	8 21	6	10	is fine take off the caps as
								soon as the dew is dried off
								open and spread the hay a
								SABBATH XXXI.
								little to give it an airing.

SUN'S DECLINATION.

NORTH.		NORTH.		NORTH.		NORTH.		NORTH.		NORTH.	
D	° ' "	D	° ' "	D	° ' "	D	° ' "	D	° ' "	D	° ' "
1	17 50	6	16 30	11	15 1	16	13 30	21	11 31	26	9 49
2	17 33	7	16 12	12	14 45	17	13 10	22	11 12	27	9 27
3	17 18	8	15 55	13	14 26	18	12 51	23	10 50	28	9 6
4	17 2	9	15 38	14	14 8	19	12 32	24	10 30	29	8 44
5	16 45	10	15 20	15	13 50	20	12 12	25	10 10	30	8 22

Moon Changes, Fulls and Quarters.

○ Full Moon, 5th day, 1h. 53m., in the morning.—S. W.

◐ Last Quarter, 12th day, 5h. 13m., in the evening.—N.

● New Moon, 19th day, 7h. 40m., in the morning.—S. E.

◑ First Quarter, 26th day, 1h. 32m., in the evening.—E.

D.	M.	D. W.	Observable Days, Aspects, Weather, &c.	☉	R.	☉	S.	●	's	●	SO.	R.	●	's
				h.	m.	h.	m.	place	h.	m.	h.	m.	h.	m.
1	Tu.		☾ runs low. <i>High winds</i>	4	52	7	19	kne's	9	38		0	55	
2	W.		☾ in Ap. and <i>thunder</i> .	4	53	7	18	kne's	10	39		1	45	
3	Th.		<i>Cooler.</i>	4	54	7	17	kne's	11	19		2	42	
4	Fr.		♀ stat. ♂ sup. ♂ ☉.	4	55	7	15	legs	morn			3	45	
5	Sa.		High tides. <i>Many cl'ds.</i>	4	57	7	14	legs	0	6		ris		
6	S.		8th S. af. Trin. ♀ ♂ ♂.	4	58	7	13	feet	0	50		8	10	
7	Mo.		h ♂ ☾ <i>Hail.</i>	4	59	7	12	feet	1	33		8	28	
8	Tu.		♂ greatest Hel. Lat. N.	5	07	10		feet	2	16		8	45	
9	W.		<i>Windy.</i>	5	17		9	head	2	56		9	6	
10	Th.		☾ S. 6h. 5m. E.	5	27		8	head	3	40		9	28	
11	Fr.		<i>Great heat.</i>	5	37		6	neck	4	25		9	54	
12	Sa.		Lo. tid. ☾ ♂ ☉. ♂ ♂ ☉.	5	47		5	neck	5	14		10	26	
13	S.		9th S. aft. Trin. <i>Show-</i>	5	57		3	arms	6	9		11	7	
14	Mo.		<i>ers.</i>	5	67		2	arms	7	8		11	58	
15	Tu.		☾ ♂ ☉. <i>Great heat.</i>	5	77		0	arms	8	12		morn		
16	W.		☾ runs high. ♀ ♂ ☉.	5	86	59		br'st	9	17		1	3	
17	Th.		☾ in Perigee. <i>Heat.</i>	5	96	57		br'st	10	20		2	13	
18	Fr.		♂ ♂ ☉.	5	106	56		heart	11	20		3	35	
19	Sa.		High tides. <i>Thunder.</i>	5	116	54		heart	ev. 14			sets.		
20	S.		10th S. aft. T. ♀ ♂ ☉.	5	136	53		belly	1	6		7	36	
21	Mo.			5	146	51		belly	1	54		7	59	
22	Tu.		Bat. Catlett's Stat. '62.	5	156	50		reins	2	30		8	19	
23	W.		Bat. Warrenton, Va., '62	5	166	48		reins	3	26		8	41	
24	Th.		<i>Rainy.</i>	5	176	47		sec's	4	12		9	5	
25	Fr.		☾ ♂ ☉. <i>Hail in many</i>	5	186	45		sec's	5	0		9	35	
26	Sa.		Low tides. <i>locations.</i>	5	196	43		thi's	5	52		10	4	
27	S.		11th S. aft. T. h ♂ ☉.	5	206	42		thi's	6	40		10	48	
28	Mo.		<i>Much wet weather to</i>	5	216	40		thi's	7	32		11	38	
29	Tu.		☾ in Apogee. <i>the end</i>	5	226	39		kne's	8	23		morn		
30	W.		2d Bt. Bull Run, '62. <i>of</i>	5	236	37		kne's	9	14		0	32	
31	Th.		<i>the month.</i>	5	246	35		legs	10	2		1	34	

SUN'S DECLINATION.

NORTH.			NORTH.			NORTH.			NORTH.			NORTH.			SOUTH.		
D	°	'	D	°	'	D	°	'	D	°	'	D	°	'	D	°	'
1	8	0	6	6	9	11	4	16	16	2	20	21	0	24	26	1	24
2	7	38	7	5	47	12	3	54	17	1	58	22	0	N 1	27	1	48
3	7	16	8	5	24	13	3	30	18	1	34	23	0	S 14	28	2	19
4	6	54	9	5	1	14	3	7	19	1	10	24	0	38	29	2	42
5	6	32	10	4	39	15	2	24	20	0	47	25	1	1	30	2	6

Moon Changes, Fulls and Quarters.

○ Full Moon, 3d day, 4h. 28m., in the evening.—N. E.

☾ Last Quarter, 10th day, 11h. 35m., in the evening.—W.

● New Moon, 17th day, 5h. 9m., in the evening.—W.

☽ First Quarter, 25th day, 7h. 18m., in the morning.—N.

M.	W.	Observable Days, Aspects, Weather, &c.	☾ R.	☾ S.	●'s	● SO.	R. ● S
D.	D.		h.m.	h.m.	place	h. m.	h. m.
1	Fr.	<i>The month opens warm</i>	5 25	6 33	legs	10 47	2 38
2	Sa	♂ ♀ ☾. and delightful.	5 26	6 32	legs	11 31	3 45
3	S.	12th S. aft. Tr. Windy.	5 27	6 30	feet	morn	rises.
4	Mo.	High tides. Rainy.	5 28	6 28	feet	0 13	6 52
5	Tu.	Hot for September.	5 29	6 27	head	0 55	7 11
6	W.	Sudden rain.	5 30	6 25	head	1 39	7 32
7	Th.	☽ in Aphelion.	5 32	6 23	neck	2 23	7 57
8	Fr.	High winds—showers.	5 33	6 22	neck	3 12	8 26
9	Sa.	Fair for a few days.	5 34	6 20	neck	4 3	9 2
10	S.	13th Sund aft. Tr.	5 35	6 18	arms	5 1	9 50
11	Mo.	Low tides.	5 36	6 16	arms	6 2	10 51
12	Tu.	♂ in Aphelion. Cloudy.	5 37	6 14	br'st	7 6	11 56
13	W.	☾ runs high. Showers.	5 38	6 13	br'st	8 8	morn
14	Th.	☾ in Perigee. ♀ ♂ ☾.	5 39	6 11	heart	9 6	1 10
15	Fr.	Changeable.	5 40	6 9	heart	10 2	2 29
16	Sa.	♂ ♂ ☾. Windy.	5 41	6 7	belly	10 54	3 49
17	S.	14th Sund. aft. Trin.	5 42	6 6	belly	11 42	sets.
18	Mo.	High tides. Fair.	5 43	6 4	reins	ev. 29	6 19
19	Tu.	♀ ♂ ☾. Fair.	5 44	6 2	reins	1 15	6 40
20	W.	Windy and warm.	5 45	6 0	se'cs	2 2	7 5
21	Th.	Hot for the season.	5 46	5 59	se'cs	2 49	7 31
22	Fr.	☾ ent. m. ♀ ♂ ☾. No	5 47	5 57	se'cs	3 40	8 4
23	Sa.	♀ grt'st elong. W. more	5 49	5 55	th'is	4 32	8 46
24	S.	15th S. af. Tr. planetary	5 50	5 53	th'is	5 23	9 29
25	Mo.	L. tid. reading this mo.	5 51	5 52	kn'es	6 15	10 22
26	Tu.	☾ runs low. ☾ in Apog.	5 52	5 50	kn'es	7 6	11 21
27	W.	Very changeable all this	5 53	5 48	kn'es	7 55	morn
28	Th.	♀ grt. hl. Lat. S. quar-	5 54	5 46	legs	8 41	0 27
29	Fr.	ter of the moon.	5 55	5 45	legs	9 25	1 32
30	Sa.	♂ ♂ ☾.	5 56	5 43	feet	10 8	2 40



September exhibits a good congress of planets from time to time. A pretty good month for business; good for the latter harvests; good for the excursionist into the country or to the beach; good for the invalid who is able to roam around home or abroad.

M.	D.	Day	Day's	D's	High	☉	●
D.	D.	break.	length.	dec.	water	f.c.	A.
		h. m.	h. m.	h. m.		m.	d.
1	6	3 41	13 8	2 9	10 19	1 13	
2	7	3 43	13 6	2 11	10 54	1 14	
3	A. 3	4 45	13 3	2 14	11 26	1 15	
4	2	3 47	13 0	2 17	11 55	1 16	
5	3	3 48	12 58	2 19	morn	2 17	
6	4	3 50	12 55	2 22	0 27	2 18	
7	5	3 52	12 51	2 26	0 59	2 19	
8	6	3 53	12 49	2 28	1 36	3 20	
9	7	3 55	12 46	2 31	2 17	3 21	
10	A. 3	5 55	12 43	2 34	3 9	4 22	
11	2	3 57	12 40	2 37	4 17	4 23	
12	3	3 58	12 37	2 40	5 51	4 24	
13	4	4 0	12 35	2 42	7 29	5 25	
14	5	4 0	12 32	2 45	8 46	5 26	
15	6	4 2	12 29	2 48	9 42	5 27	
16	7	4 2	12 26	2 51	10 26	6 28	
17	A. 4	4 12	24 2	53 11	3 6	6	●
18	2	4 6	12 21	2 56	11 31	6 1	
19	3	4 7	12 18	2 59	ev. 10	7 2	
20	4	4 9	12 15	3 2	0 44	7 3	
21	5	4 10	12 13	3 4	1 18	8 4	
22	6	4 12	12 10	3 7	1 58	8 5	
23	7	4 14	12 6	3 11	2 43	8 6	
24	A. 4	4 16	12 3	3 14	3 32	8 7	
25	2	4 16	12 1	3 16	4 35	9 8	
26	3	4 17	11 58	3 19	5 51	9 9	
27	4	4 19	11 55	3 22	7 10	9 10	
28	5	4 19	11 52	3 25	8 14	10 11	
29	6	4 20	11 50	3 27	9 5	10 12	
30	7	4 21	11 47	3 30	9 47	10 13	

Farmer's Register, Domestic Economy, &c.

Many farmers find this a comparatively leisure

SABBATH XXXVI.
month and hardly know what to set themselves about. One of the best things they can do will be to make the bottom of their pig pens and barn cellars perfectly water

SABBATH XXXVII.
tight, so that not a drop of the liquid manure can soak into the ground, or run away on the surface. Any one not acquainted with the subject will be surprised to find how much litter,

SABBATH XXXVIII.
loam, meadow muck, and other absorbants it will take to keep a pig pen dry enough for the pig's comfort, and they will also be surprised to find how much manure can be made by a

SABBATH XXXIX.
single pig if only enough material is supplied for the manufactory. For this purpose continue to gather up weeds, leaves, ferns and even small bushes.

SUN'S DECLINATION.

SOUTH.			SOUTH.			SOUTH.			SOUTH.			SOUTH.			SOUTH.		
D	°	'	D	°	'	D	°	'	D	°	'	D	°	'	D	°	'
1	3	23	6	5	25	11	7	19	16	9	11	21	10	59	26	12	44
2	3	53	7	5	48	12	7	42	17	9	33	22	11	21	27	13	4
3	4	16	8	6	11	13	8	4	18	9	55	23	11	42	28	13	24
4	4	39	9	6	34	14	8	27	19	10	15	24	12	3	29	13	44
5	5	2	10	6	56	15	8	49	20	10	38	25	12	23	30	14	4

Moon Changes, Fulls and Quarters.

○ Full Moon, 3d day, 6h. 11m., in the morning.—W.

☾ Last Quarter, 10th day, 5h. 34m., in the morning.—S.

● New Moon, 17th day, 5h. 11m., in the morning.—E.

☽ First Quarter, 25th day, 3h. 9m., in the morning.—N. W.

M.	W.	Observable Days, Aspects, Weather, &c.	☾ R. h. m.	☾ S. h. m.	●'s place	● SO. h. m.	R. ● S h. m.
1	S.	16th S. aft. Trin. Cold	5 57	5 41	feet	10 51	3 47
2	Mo.	rains.	5 58	5 39	feet	11 34	4 54
3	Tu.	High tides.	6 0	5 38	head	morn	rises.
4	W.	Variable.	6 1	5 36	head	0 19	5 58
5	Th.	☾ sets, 6h. 31m. E.	6 2	5 34	neck	1 6	6 27
6	Fr.	☾ south 9h. 15m. E.	6 3	5 33	neck	2 0	7 1
7	Sa.	Windy yet mild—show-	6 4	5 31	arms	2 53	7 48
8	S.	17th Sund.af. Trin. ers.	6 5	5 29	arms	3 56	8 38
9	Mo.	☾ runs high. Fair.	6 6	5 27	br'st	4 54	9 48
10	Tu.	Low tides. Cold rains.	6 8	5 26	br'st	6 1	11 1
11	W.		6 9	5 24	heart	7 0	morn
12	Th.	☾ in dec. Node. Varia-	6 10	5 23	heart	7 55	0 16
13	Fr.	☾ Inf. ☾ ☾ ☾ C. ble.	6 11	5 21	belly	8 46	1 32
14	Sa.		6 12	5 19	belly	9 50	2 52
15	S.	18th S. af. Trin. ☾ ☾ C.	6 14	5 18	reins	10 21	4 0
16	Mo.	☾ ☾ C. Windy & moist.	6 15	5 16	reins	11 7	5 12
17	Tu.	Hi. tid. Wind and rain.	6 16	5 15	reins	11 52	sets.
18	W.	No planetary reading	6 17	5 13	se'cs	ev. 41	5 32
19	Th.	☾ sets 6h. 47m. E. till	6 18	5 11	se'cs	1 31	6 3
20	Fr.	☾ ☾ C. the 23d.	6 19	5 10	th'is	2 22	6 39
21	Sa.	☾ Stat.	6 20	5 8	th'is	3 14	7 21
22	S.	19th Sund. aft. Trin.	6 22	5 7	kn'es	4 8	8 12
23	Mo.	☾ runs low. Variable;	6 23	5 5	kn'es	4 58	9 10
24	Tu.	misty air.	6 24	5 4	kn'es	5 47	10 12
25	W.	Low tides. Cold rains.	6 25	5 3	legs	6 34	11 16
26	Th.	Neptune ☾ ☾. Windy,	6 26	5 1	legs	7 18	morn
27	Fr.	☾ ☾ C. yet warm.	6 28	5 0	feet	8 1	0 24
28	Sa.	Clear and serene.	6 29	4 58	feet	8 43	1 30
29	S.	20th S. aft. Tr. Windy.	6 30	4 57	feet	9 27	2 37
30	Mo.		6 31	4 56	head	10 11	3 45
31	Tu.	Fair.	9 33	4 54	head	10 57	4 53



Though planetary reading for Oct. does not say much about the weather, yet the fair moon, in her revolution round the earth, looking down upon the aerial ocean, from her four stand points, influences it to give us abundant rain.

R.	W.	Day	Day's	Dy's	High	☉	●	Farmer's Register, Domestic Economy, &c.	
D.	D.	break.	length.	decr.	Water	f o m.	A. d.		
1	A.	4	21	11 44	3 33	10 23	11 14	SABBATH XL.	
2	2	4	23	11 42	3 35	10 56	11 15	Animals fatten very readily this month and advantage should be taken of it. It will be much easier to fatten them now, and then keep them in a good condition until they are	
3	3	4	24	11 38	3 39	11 30	11 16		
4	4	4	25	11 35	3 42	morn. 12	17		
5	5	4	27	11 32	3 45	0 4	12 18		
6	6	4	28	11 30	3 47	0 43	12 19	SABBATH XLI.	
7	7	4	29	11 27	3 50	1 21	13 20		
8	A.	4	31	11 24	3 53	2 10	13 21		
9	2	4	33	11 21	3 56	3 2	13 22	ready to be sold. Do not let a fat animal lose any flesh, for it will be harder to get it back again. Small potatoes cooked with meal make an excellent food for swine. All their food	
10	3	4	34	11 18	3 59	4 15	13 23		
11	4	4	35	11 15	4 2	5 42	14 24		
12	5	4	36	11 13	4 4	7 10	14 25		
13	6	4	39	11 10	4 7	8 21	14 26	SABBATH XLII.	
14	7	4	41	11 7	4 10	9 31	14 27		
15	A.	4	41	11 4	4 13	9 59	14 28		
16	2	4	43	11 1	4 16	10 37	15 29	should be cooked, as it is rendered more digestible and consequently more good is derived from it. They will be much benefited if powdered charcoal and a little wood ashes are	
17	3	4	44	10 59	4 18	11 11	15 30		
18	4	4	45	10 56	4 21	11 46	15 31		
19	5	4	47	10 53	4 24	ev. 22	15 32		
20	6	4	48	10 51	4 26	0 58	15 33	SABBATH XLIII.	
21	7	4	48	10 48	4 29	1 38	15 34		
22	A.	4	49	10 45	4 32	2 21	16 5		
23	2	4	52	10 42	4 35	3 6	16 6	occasionally mixed with their food, especially if they do not have access to earth. With small pigs it is necessary that they can get at some dirt or their teeth will become black	
24	3	4	54	10 40	4 37	3 59	16 7		
25	4	4	54	10 38	4 39	5 4	16 8		
26	5	4	54	10 35	4 42	6 11	16 9		
27	6	4	55	10 32	4 45	7 20	16 10	SABBATH XLIV.	
28	7	4	56	10 29	4 48	8 17	16 11		
29	A.	4	57	10 27	4 50	9 7	16 12		
30	2	4	58	10 25	4 52	9 50	16 13		
31	3	4	59	10 21	5 56	10 27	16 14	and brittle, and after a while they sicken and die.	

SUN'S DECLINATION.

SOUTH.			SOUTH.			SOUTH.			SOUTH.			SOUTH.			SOUTH.		
D	°	'	D	°	'	D	°	'	D	°	'	D	°	'	D	°	'
1	14	42	6	16	15	11	17	40	16	18	58	21	20	8	26	21	8
2	15	1	7	16	32	12	17	57	17	19	13	22	20	21	27	21	19
3	15	20	8	16	50	13	18	13	18	19	47	23	20	33	28	21	30
4	15	29	9	17	7	14	18	28	19	19	41	24	20	45	29	21	40
5	15	57	10	17	24	15	18	43	20	19	55	25	20	57	30	21	50

Moon Changes, Fulls and Quarters.

○ Full Moon, 1st day, 6h. 46m., in the evening.—E.

☾ Last Quarter, 8th day, 0h. 32m., in the evening.—W.

● New Moon, 15th day, 8h. 4m., in the evening.—N. W.

☽ First Quarter, 23d day, 11h. 45m., in the evening.—W.

M.	W.	Observable Days, Aspects, Weather, &c.	○ R.	○ S.	●'s	● SO.	R ● S.
D.	D.		h. m.	h. m.	place	h. m.	h. m.
1	W.	High tides. Fair.	6 34	4 53	neck	10 57	rises.
2	Th.		6 35	4 52	neck	11 59	5 1
3	Fr.	High winds.	6 36	4 51	arms	morn	5 42
4	Sa.	½ Stat. Cold and squalls	6 38	4 49	arms	0 45	6 36
5	S.	21st S. aft. Trin. of rain	6 39	4 48	br'st	1 46	7 40
6	Mo.	☾ runs high. or snow.	6 40	4 47	br'st	2 50	8 42
7	Tu.	Windy, but not cold.	6 41	4 46	heart	3 53	10 8
8	W.	Low tides. A wet time.	6 43	4 45	heart	4 54	11 25
9	Th.	Fair.	6 44	4 44	belly	5 51	morn
10	Fr.	♂ S. 9h. 47m. E. Change-	6 45	4 43	belly	6 44	0 39
11	Sa.	able. High winds.	6 46	4 42	belly	7 32	1 51
12	S.	22d S. af. Trin. ♀ ♂ ☾.	6 48	4 41	reins	8 18	3 1
13	Mo.	♂ ♂ ☾. Many clouds.	6 49	4 40	reins	9 3	4 11
14	Tu.	♀ in Perihelion. Cold.	6 50	4 39	sec's	9 47	5 23
15	W.	High tides. ♀ ♂ ☾. Wind	6 52	4 38	sec's	10 34	sets.
16	Th.	☾ ☐ ☉. and rain.	6 53	4 37	thi's	11 23	4 33
17	Fr.	☾ ♂ ☾. Colder.	6 54	4 36	thi's	ev. 13	5 15
18	Sa.	Planets are silent.	6 55	4 35	thi's	1 5	6 3
19	S.	23d Sunday aft. Trinity.	6 56	4 35	kne's	1 56	6 50
20	Mo.	☾ runs low. No planetary	6 58	4 34	kne's	2 39	7 59
21	Tu.	reading.	6 59	4 33	legs	3 39	9 4
22	W.	♂ S. 9h. 28m. E. Mild.	7 0	4 33	legs	4 28	10 8
23	Th.	Low tides. ½ ☐ ☉. Sn'w	7 1	4 32	legs	5 11	11 15
24	Fr.	½ ♂ ☾. on the heights.	7 2	4 32	feet	5 55	morn.
25	Sa.	Fair.	7 4	4 31	feet	6 39	0 23
26	S.	24th Sund. aft. Trin.	7 5	4 31	head	7 18	1 26
27	Mo.	Wind and clouds.	7 6	4 30	head	8 2	2 33
28	Tu.	♀ ♂ ♂. Snow or rain.	7 7	4 30	neck	8 47	3 43
29	W.	♠ Stat. Cold and damp	7 8	4 29	neck	9 36	4 53
30	Th.	♂ S. 9h. 18in. E. air.	7 9	4 29	neck	10 28	6 8

SUN'S DECLINATION.

SOUTH.			SOUTH.			SOUTH.			SOUTH.			SOUTH.			SOUTH.		
D	°	'	D	°	'	D	°	'	D	°	'	D	°	'	D	°	'
1	21	57	6	22	35	11	23	4	16	23	21	21	23	27	26	23	18
2	22	6	7	22	42	12	23	8	17	23	24	22	23	27	27	23	15
3	22	14	8	22	48	13	23	12	18	23	26	23	23	25	28	23	12
4	22	22	9	22	54	14	23	16	19	23	27	24	23	24	29	23	8
5	22	30	10	23	0	15	23	19	20	23	27	25	23	21	30	23	4

Moon Changes, Fulls and Quarters.

- Full Moon, 1st day, 6h. 24m., in the morning.—W.
 ☾ Last Quarter, 7th day, 9h. 38m., in the evening.—N. E.
 ● New Moon, 15th day, 1h. 29m., in the evening.—S.
 ☽ First Quarter, 23d day, 6h. 56m., in the evening.—S.
 ○ Full Moon, 30th day, 5h. 14m., in the evening.—E.

M.	W.	Observable Days, Aspects, Weather, &c.	☉ R	☉ S.	☾'s	● SO.	R ● S
D.	D.		h.m.	h.m.	place	h. m.	h. m.
1	Fr.	High tides. <i>Stormy.</i>	7 10	4 29	arms	morn.	rises.
2	Sa.	<i>Rain or snow.</i>	7 11	4 28	arms	0 33	6 11
3	S.	1st Sunday in Advent.	7 12	4 28	br'st	1 39	6 38
4	Mo.	☾ runs hi. ☽ Sup. ☉ ☉.	7 13	4 28	br'st	2 45	7 46
5	Tu.	☽ ☉ ☽ the 4th. (☽ ☉ ☉.)	7 14	4 28	heart	3 34	9 14
6	W.	<i>More pacific.</i>	7 15	4 28	heart	4 39	10 29
7	Th.	Low tides. <i>Rain or snow.</i>	7 16	4 28	belly	5 30	11 44
8	Fr.	☽ S. 5h. 9m. E.	7 17	4 28	belly	6 17	54
9	Sa.	<i>High winds and snow.</i>	7 18	4 28	reins	7 2	0 54
10	S.	2d Sund. in Adv. <i>drifts.</i>	7 19	4 28	reins	7 46	2 4
11	Mo.	☽ ☉ ☉. <i>Gloomy, cold</i>	7 20	4 28	sec's	8 31	3 14
12	Tu.	☽ ☉ ☉. <i>and foggy.</i>	7 20	4 28	sec's	9 24	4 27
13	W.	<i>Cold.</i>	7 21	4 28	sec's	10 7	5 46
14	Th.	☽ ☉ ☉. <i>No aspects.</i>	7 22	4 29	thi's	10 59	6 39
15	Fr.	High tides.	7 23	4 29	thi's	11 51	sets.
16	Sa.	☾ r. low. ☽ ☉ ☉. <i>Rough</i>	7 23	4 29	kne's	ev. 42	4 51
17	S.	3d S. in Adv. & <i>stormy.</i>	7 24	4 29	kne's	1 34	5 52
18	Mo.	☽ S. 8h. 51m. E. <i>Tem-</i>	7 25	4 29	legs	2 22	6 53
19	Tu.	☽ S. 4h. 28m. E. <i>perate.</i>	7 25	4 30	legs	3 8	7 59
20	W.	<i>From the 15th to the 23d</i>	7 26	4 31	legs	3 51	9 4
21	Th.	☉ ent. ☽ ☉ ☉. <i>many</i>	7 26	4 31	feet	4 30	10 10
22	Fr.	<i>clouds & variable storms.</i>	7 27	4 32	feet	5 13	11 12
23	Sa.	Low tides. <i>Mild with rain</i>	7 27	4 32	head	5 55	morn
24	S.	4th Sund. in Adv. <i>at sea-</i>	7 28	4 33	head	6 36	0 18
25	Mo.	Christmas Day. <i>level.</i>	7 28	4 33	head	7 22	1 23
26	Tu.	<i>High winds.</i>	7 28	4 34	neck	8 12	2 32
27	W.	☽ S. 8h. 38m. E.	7 29	4 35	neck	9 8	3 42
28	Th.	<i>Planets are silent.</i>	7 29	4 35	arms	10 9	4 59
29	Fr.	<i>Damp air.</i>	7 29	4 36	arms	11 15	6 16
30	Sa.	High tides. <i>The year</i>	7 29	4 37	br'st	morn	rises.
31	S.	☉ in Perigee. <i>closes cold.</i>	7 30	4 38	br'st	0 22	5 31



Additional Remarks.—The general state of the weather for the month will be very changeable—very windy but not a great degree of cold. The state of the atmosphere will be not, and many cloudy days.

N.	P.	Day		Days'		D's		High	☉	☾	The Farmer's Register, Domes- tic Economy, &c.	
		break.	length.	dec.		Water						
P.	P.	h. m.	h. m.	h. m.	h. m.			m.	m.	d.		
1	6	5	31	9	19	5	58	11	40	11	16	Food for cattle is improved by steaming and cooking. It
2	7	5	33	9	17	6	0	morn	10	17		
3	A	5	33	9	16	6	1	0	27	10	18	
4	2	5	35	9	15	6	2	1	15	9	19	SABBATH XLIX. will pay a good farmer to buy a steamer and cook the food before feeding out. Corn stalks are made more palatable by cutting them up; and having put them in barrels with a little meal sprinkled
5	3	5	36	9	14	6	1	1	54	9	20	
6	4	5	38	9	13	6	4	2	49	8	21	
7	5	5	38	9	12	6	5	3	41	8	22	SABBATH L. upon them, pour several quarts of boiling water into each barrel and let them stand over night, feed in the morning and there will be but little left of them. A plan of the farm with the different
8	6	5	39	9	11	6	6	4	38	8	23	
9	7	5	40	9	10	6	7	5	45	7	24	
10	A	5	40	9	9	6	8	6	56	7	25	SABBATH LI. portions under cultivation marked upon it, will aid very much in calculating what and where to plant the next summer. The plan he can draw himself. His leisure time should be employed in
11	2	5	41	9	8	6	9	8	0	6	26	
12	3	5	41	9	8	9	9	9	3	6	27	
13	4	5	42	9	7	6	10	9	47	5	28	SABBATH LII. reading and seeing where he can make improvements. The different yields of the various crops should be noted down, and next summer try to improve upon them; also take account of tools and stock.
14	5	5	42	9	7	6	10	10	30	5	29	
15	6	5	43	9	6	6	11	11	10	4	30	
16	7	5	43	9	6	6	11	11	47	4	1	SABBATH LIII. The different yields of the various crops should be noted down, and next summer try to improve upon them; also take account of tools and stock.
17	A	5	44	9	5	6	12	ev.	23	3	2	
18	2	5	44	9	4	6	13	0	58	3	3	
19	3	5	44	9	5	inc.		1	33	3	4	SABBATH LIV. reading and seeing where he can make improvements. The different yields of the various crops should be noted down, and next summer try to improve upon them; also take account of tools and stock.
20	4	5	45	9	5	0	1	2	6	2	5	
21	5	5	46	9	5	0	1	2	41	1	6	
22	6	5	46	9	5	0	1	3	22	1	7	SABBATH LV. reading and seeing where he can make improvements. The different yields of the various crops should be noted down, and next summer try to improve upon them; also take account of tools and stock.
23	7	5	47	9	5	0	1	4	8	0	8	
24	A	5	47	9	5	0	1	5	7	S	9	
25	2	5	48	9	5	0	1	6	34	1	10	SABBATH LVI. reading and seeing where he can make improvements. The different yields of the various crops should be noted down, and next summer try to improve upon them; also take account of tools and stock.
26	3	5	48	9	6	0	2	7	35	1	11	
27	4	5	49	9	6	0	2	8	48	2	12	
28	5	5	49	9	6	0	2	9	48	2	13	SABBATH LVII. reading and seeing where he can make improvements. The different yields of the various crops should be noted down, and next summer try to improve upon them; also take account of tools and stock.
29	6	5	49	9	7	0	3	10	42	3	14	
30	7	5	49	9	8	0	4	11	32	3	15	
31	A	5	50	9	8	0	4	morn	4	16		SABBATH LVIII.

COURTS.

United States Courts.

THE SUPREME COURT is held in the City of Washington, and has one session annually, commencing on the first Monday of December.

	Appointed.	Salary.
MORRISON R. WAITE, Ohio, <i>Chief Justice</i> ,	1874	\$8,500
NATHAN CLIFFORD, Portland, Me., <i>Ass. Jus.</i> ,	1858	8,000
NOAH H. SWAYNE, Columbus, Ohio,	" "	8,000
SAMUEL F. MILLER, Keokuk, Iowa,	" "	8,000
DAVID DAVIS, Bloomington, Ill.,	" "	8,000
STEPHEN J. FIELD, Cal.,	" "	8,000
WILLIAM STRONG, Philadelphia, Pa.,	" "	8,000
JOSEPH P. BRADLEY, Newark, N. J.,	" "	8,000
WARD HUNT, Utica, N. Y.	" "	8,000
EDWARD PIERREPONT, <i>Attorney General</i> ,		8,000
JOHN W. WALLACE, Philadelphia, <i>Reporter</i> ,		2,500
D. W. MIDDLETON, Washington, <i>Clerk</i> .		

Circuit Court of New Hampshire—At Portsmouth, on the 8th of May. At Exeter, on the 8th of October. Maine—At Portland 23d of April, and 23 of September. Vermont—At Windsor, 4th Tuesday of February. Massachusetts—Boston, 15th of May and 15th of October. Rhode Island—Providence, 15th of June and 15th of November. Connecticut—New Haven, 4th Tuesday of April, and Hartford, 3d Tuesday of September. If the days happen on Sunday, the court comes on the Monday following.

DANIEL CLARK, Manchester, *District Judge*; JOSHUA G. HALL, Dover, *District Attorney*; CHARLES H. BARTLETT, Manchester, *Clerk*; JOAB N. PATTERSON, Concord, *Marshal*.

District Courts.—Maine—Bath, 1st Tuesday in September. Portland, 1st Tuesday in February and December. Bangor, 4th Tuesday in June. New Hampshire—Portsmouth, 3d Tuesday in March and September. Exeter, 3d Tuesday in June and December. Vermont—Burlington, 4th Tuesday in February. Windsor, 3d Tuesday in May. Rutland, 1st Tuesday in October. Massachusetts—Boston 3d Tuesday in March, 4th Tuesday in June, 2d Tuesday in September, and 1st Tuesday in December. Rhode Island—Newport, 2d Tuesday in May, and 3d Tuesday in October. Providence, 1st Tuesday in February and August. Connecticut—New Haven, 4th Tuesday in February and August. Hartford, 4th Tuesday in May and November.

Courts in New Hampshire.

	SUPERIOR COURT.	Salary.
EDWARD L. CUSHING, Charlestown, <i>Chief Justice</i> ,		\$2,400
WILLIAM S. LADD, Lancaster, <i>Associate Justice</i> ,		2,200
ISAAC W. SMITH, Manchester,	" "	2,200
	CIRCUIT COURT.	
WILLIAM L. FOSTER, Concord, <i>Chief Justice</i> ,		2,200
EDWARD D. RAND, Lisbon, <i>Associate Justice</i> ,		2,200
CLINTON W. STANLEY, Manchester,	" "	2,200
LEWIS W. CLARK, Manchester, <i>Attorney General</i> ,		2,200
JOHN M. SHIRLEY, Andover, <i>Reporter</i> ,		400

CLERKS OF COURTS.

Rockingham—CHAS. G. CONNER, Exeter. Strafford—JAS. M. FOLSOM, Dover. Belknap—O. A. J. VAUGHN, Laconia. Merrimack—L. S. MORRILL, Concord. Hillsborough—GEO. A. RAMSDALL, Nashua. Cheshire—EDW. FARRAR, Keene. Sullivan—GEO. E. DAME, Newport. Grafton—CHAS. B. GRISWOLD, Haverhill. Coos—MOSES A. HASTINGS, Lancaster.

SUPERIOR COURT.—At Concord, on the 1st Tu. of June and Dec. At each term the business of respective counties will be attended to as follows: Rockingham, Strafford, Belknap and Carroll, on the 1st Tu.; Merrimack and Hillsborough, on the 2d Tues.; Cheshire, Sullivan, Grafton and Coos on the 3d Tu.

CIRCUIT COURT.—At Portsmouth on the 3d Tuesday of October, and at Exeter on the 3d Tuesday of January and the 21 Tues. of April, for the County of Rockingham.

At Dover on the 2d Tues. of Feb., and the 1st Tues. Sept., for the County of Strafford.

At Laconia, on the 4th Tuesday of March and the 4th Tues. of Sep., for the County of Belknap.

At Ossipee, on the 3d Tuesday of April and Oct. for the Co. of Carroll.

At Concord, on the 1st Tu. of Oct. and on the 1st Tu. of April, for the

County of Merrimack.

At Amherst on the 1st Tu. of May, at Manchester on the 1st Tu. of Jan., and at Nashua on the 1st Tu. of Sep. for the County of Hillsborough.

At Keene on the 1st Tu. of April and the 3d Tu. of Oct., for the County of Cheshire.

At Newport on the 4th Tuesday of Jan. and the 1st Tu. Sep., for the County of Sullivan.

At Haverhill on the 4th Tu. of Mar. and the 4th Tu. of Sep., for the Western Judicial District, and at Plymouth on the 1st Tu. of May and the 1st Tu. of Nov., for the Eastern Judicial District in the County of Grafton.

At Colebrook on the 1st Tu. of Feb. and the 3d Tu. of Aug., for the Northern Judicial District of Coos; and at Lancaster on the 4th Tu. of April, and on the first Tu. of Nov., for the Southern Judicial District of Coos.

PROBATE COURTS IN NEW HAMPSHIRE.

Judges of Probate.

Rockingham, Joseph F. Wiggin, Exeter; *Strafford*, Moses C. Russell, Somersworth; *Belknap*, Samuel W. Rollins, Meredith; *Carroll*, George W. M. Pitman, Bartlett; *Merrimack*, Warren Clark, Concord; *Hillsborough*, Lucien B. Clough, Manchester; *Cheshire*, Harvey Carlton, Keene; *Sullivan*, Jonathan H. Dickey, Acworth; *Grafton*, Sam'l K. Mason, Bristol; *Coos*, Hazen Bedell, Colebrook.

Registers of Probate.

Wm. H. Hunnewell, Exeter; Geo. E. Durgin, Lee; Daniel S. Dinsmore, Laconia; Christopher W. Wilder, Conway; Wm. Yeaton, Concord; Timothy B. Crowley, Nashua; Dauphine W. Buckminster, Keene; George R. Brown, Newport; Sam'l T. Page, Haverhill; Geo. H. Emerson, Lancaster.

Rockingham County—At Exeter, on the Wednesday next following the third Tuesday of February, March and August, on the Wednesday next following the first Tuesday of April, and on the Wednesday next following the second Tuesday of every other month;—Portsmouth, on the third Tuesday of March and on the second Tuesday of January, May, July, September and November;—Derry, on the third Tuesday of February, and on the second Tuesday of June and October;—Raymond, on the first Tuesday of April, on the third Tuesday of August, and on the second Tuesday of December.

Strafford County—Dover, on the first Tuesday of January, March, May, August and October; Rochester, on the first Tuesday of July and December; Farmington, on the first Tuesday of April and September; Somersworth, on the first Tuesday of Feb., June and Nov.

Belknap County—Laconia, on the

third Tuesday of every month.

Carroll County—Conway, on the first Tuesday of January, May and September; West Ossipee, 1st Tuesday of February, June and October; Ossipee Corner, first Tuesday of March, July and November; Wolfborough Junction, first Tuesday of April, August and December.

Merrimack County—Concord, on the fourth Tuesday of every month; at Franklin, on the second Tuesday of February, May, August and November; at Pittsfield, on the second Thursday of March, and on the second Tuesday of June, September, and December; at Warner, on the second Tuesday of January, April, July and October.

Hillsborough County—Manchester, on the fourth Tuesday of January, March, May, July, September and November; Nashua, on the fourth Tuesday of February, April, June, August, October and December, Hillsborough Bridge, on Friday

next following the 4th Tuesday of January; Amherst, on the Friday next following the fourth Tuesday of February, June, September and December; Peterborough, on the Friday next following the fourth Tuesday of May and August; Mason Village, on the Friday next following the fourth Tuesday of March and November. At Francestown, on the Friday next following fourth Tuesday of April, July and October.

Cheshire County—Keene, on the first and third Fridays of every month.

Sullivan County—Newport, on the last Wednesday of February, April, June, August, October and December; Claremont, on the last Wednesday of January, March, May, July,

September and November.

Grafton County—Lisbon, on the third Tuesday of April and October, Plymouth, on the first Tuesday of May and November; Canaan, on the first Tuesday of June and December; Haverhill, on the third Tuesday of March and September; Bristol, on the third Tuesday of July; Littleton, on the third Tuesday of January; Orford, on the third Tuesday of February; Wentworth on the third Tuesday of August; Lebanon, on the first Tuesday of March and September.

Coos County—Colebrook, on the first Tuesday of Feb. and Sep.; Lancaster on the first Tuesday of Jan. Mar. May, July, and Nov.; Gorham on the first Tuesday of Oct.

COURTS IN MAINE.

SUPREME JUDICIAL COURT. LAW TERMS—Augusta 4th Tu. of May. Portland. 3d Tuesday July. Bangor, 3d Tuesday June.

A meeting of all the Justices shall be held annually at Augusta during the law term; and all undecided questions of Law and Equity previously submitted shall then be decided.

SUPREME JUDICIAL COURT. CIVIL AND CRIMINAL ACTIONS.—Androscoggin Co., at Auburn, 3d Tu. Jan., April and Sept. Aroostook Co., at Houlton, last Tu. Feb., and 3d Tu. Sept. Cumberland Co., Portland, 2d Tu. Jan., April and Oct. Franklin Co., at Farmington, 1st Tu. Mar., and 4th Tu. Sept. Hancock Co., at Ellsworth, 2d Tu. April and Oct. Kennebec Co., at Augusta, 1st Tu. March, 1st Tu. Aug., 3d Tu. October. Knox Co., at Rockland, 2d Tu. Mar. and Dec., 3d Tu. Sept. Lincoln Co., at Wiscasset, 4th Tu. April and 4th Tu. Oct. Oxford Co., at Paris, 2d Tu. March and 3d Tu. Sept., 1st Tu. Dec. Penobscot Co., Bangor, Civil

Actions, 1st Tu. Jan. and April and 1st Tu. Oct.; Criminal Actions, 1st Tu. Feb. and 2d Tu. Aug. Piscataquis Co., at Dover, last Tu. Feb., and 2d Tu. Sept. Sagadahoc Co., at Bath, 1st Tu. April and 3d Tu. Aug. and Dec. (Dec. term for civil actions only.) Somerset Co., at Skowhegan, 3d Tu. March, Sept. and Dec. Waldo Co., at Belfast, 1st Tu. Jan. and 3d Tu. in April and Oct. Washington Co., at Machias, 1st Tu. of Oct. and Jan.; at Calis, 4th Tu. April. York Co., Saco, 1st Tu. Jan.; Alfred, 3d Tu. May and 3d Tu. Sept.

THE SUPERIOR COURT FOR CUMBERLAND COUNTY has exclusive jurisdiction in civil actions from \$20 to \$500, and concurrent jurisdiction with S. J. Court in actions exceeding \$100 and criminal jurisdiction in all actions. Court sits for trial of civil actions exclusively, 1st Tu. of Feb., March, April, Oct., Nov. and Dec.; and for civil and criminal cases; 1st Tu. of Jan., May and Sept.

COURTS IN CONNECTICUT.

SUPREME COURT OF ERRORS.

First Judicial District (Hartford, Tolland and Middlesex Counties), at Hartford, 4th Tues. Feb. and 2d Tues. Sept.

Second Judicial District (New London and Windham Counties), at Norwich, 2d Tu. March and 4th Tu. Oct.

Fairfield Co., at Bridgeport, last Tu. Jan. and 2d Tu. Oct.

Litchfield Co., at Litchfield, 2d Tu. June.

New Haven Co., at New Haven, 1st Tues. April and 2d Tues. Nov.

SUPERIOR COURT.

Fairfield Co., *for civil business only*, at Bridgeport, 1st Tues. in Mar. and 2d Tu. in Dec.; at Danbury, 4th Tu. in Aug. and 3d Tu. Oct.; *for criminal business*, and such *civil business* as may be transferred there by order of court, at Bridgeport, 3d Tues. in Feb.

4th Tu. in Aug., and 3d Tu. in Oct.; and at Danbury 1st Tu. in June.

Hartford Co., *for civil business only*, at Hartford, 2d Tues. in March, 4th Tues. in Sept., and 3d Tues. in Dec.; *for criminal business only*, 4th Tu. in Aug. and 1st Tu. in Dec. and March; and 1st Tues. in July for both *civil* and *criminal business*.

Litchfield Co., at Litchfield, 4th Tu. Jan., 2d Tu. April, 3d Tues. Sept. and 1st Tu. Nov.

Middlesex Co., at Middletown, 1st Tues. Feb. and Dec.; at Haddam, 2d Tu. in April, and Oct., and *for criminal business only*, 3d Tues. in July.

New Haven Co., *for civil business only*, at Waterbury 1st Tues. in Feb. and June; at New Haven, 1st Tues. in March and Sept., 2d Tues. in May and Oct., and 3d Tues. in Dec.; *for criminal business only*, at New Haven

1st Tu. in Jan., April, July, and Oct.

New London Co., at New London, 3d Tues. in Jan. and 2d Tu. in Sept.; at Norwich, last Tues. in March and 3d Tues. in Nov.

Tolland Co., at Tolland, 1st Tu. in Feb. Sept. and Dec., and 2d Tu. Apr.

Windham Co., at Brooklyn, 1st Tu. in Jan. and Nov., 3d Tues. in Apr., and 4th Tues. in Aug.

COURTS OF COMMON PLEAS.

Fairfield Co., at Danbury, 1st Mon. Jan., Feb., May, and Oct.; at Bridgeport, 1st Mon. Mar., June, Sept., Nov. and Dec., and 1st Tu. April; and at Stamford, an adjourned term for the trial of court cases only, on 2d Mon. May and Dec., and at such other times as the Judge may order.

Hartford Co., at Hartford, 1st Mon. in each month except July and Aug.

New Haven Co., at New Haven, 1st Mon. in each month except July and Aug.

New London Co., at Norwich, 1st Tues. Feb. and Oct.; at New London, 1st Tues. of Apr. and Aug.

A DISTRICT COURT,

For the towns of Barkhamstead, Bridgewater, Canaan, Colebrook, Cornwall, Kent, New Hartford, New Milford, Norwalk, North Canaan, Roxbury, Salisbury, Sharon, and Winchester, is held at Winchester, 1st Mon. Jan., May, Oct.; at Canaan, 1st Mon. Mar., Aug., and Nov.; at New Milford, 1st Tu. Apr., and 1st Mon. Sept. and Dec.

COURTS IN VERMONT.

SUPREME COURT.

Gen. Term at Montpelier, Oct. or Nov.

Addison Co., at Middlebury, 1st Mo. aft. 3d Tu. Jan.

Bennington Co., on even years at Bennington, and on odd years at Manchester, 2d Tu. aft. 4th Tues. Jan.

Caledonia Co., at St. Johnsbury, 1st Thurs. next aft. 4th Tues. in Aug.

Chittenden Co., at Burlington, 1st Tu. in Jan.

Essex Co., at Guildhall, 4th Tues. in August.

Franklin Co., at St. Albans, 1st Th. after 2d Tues. in Jan.

Grand Isle Co. at North Hero, 3d Tues. in Jan.

Lamoille Co., at Hyde Park, 3d Tu. in Aug.

Orange Co., at Chelsea, 6th Tu. aft. 4th Tu. in Jan.

Orleans Co., at Irasburg, 1st Thurs. next aft. 3d Tues. in Aug.

Rutland Co., at Rutland, 1st Th. aft. 4th Tu. Jan.

Washington Co., at Montpelier, 2d Tues. in Aug.

Windham Co., at Newfane, Mon. following 2d Tu. aft. 4th Tu. in Jan.

Windsor Co., at Woodstock, 1st Th. aft. 4th Tu. next aft. 4th Tu. in Jan.

COUNTY COURTS

Addison Co., at Middlebury, 1st Tu. in June, and 2d in Dec.

Bennington Co., at Manchester, 1st Tues. in June, and Bennington, 1st Tues. in Dec.

Caledonia Co., at St. Johnsbury, 1st Tues. in June and Dec.

Chittenden Co., at Burlington, 1st Tues. in April, and 3d in Sept.

Essex Co., at Guildhall, 2d Tues. in March and Sept.

Franklin Co., at St. Albans, 2d Tu. in Apr. and Sept.

Grand Isle Co., at North Hero, last Tu. but one in Feb. and last Tu. in Aug.

Lamoille Co., at Hyde Park, 4th Tu. May and Dec.

Orange Co., at Chelsea, 1st Tu. in June and 3d in Dec.

Orleans Co., at Irasburg, 1st Wed. aft. 1st Tues. in Sept. and 1st Tues. in Feb.

Rutland Co., at Rutland, 2d Tues. in Mar. and Sept.

Washington Co., at Montpelier, 2d Tu. Mar. and Sept.

Windham Co., at Newfane, 2d Tu. in April and Sept.

Windsor Co., at Woodstock, 4th Tu. in May, and 1st in Dec.

COURTS IN RHODE ISLAND.

SUPREME COURT.—At Newport, 3d Mon. in Mar. and 3d Mon. in Sept. Providence, 4th Mon. in Mar. and 1st Mon. in Oct. So. Kingston, 3d Mon. in Feb. and 3d Mon. in Aug. Bristol, 1st Mon. in Mar. and 2d Mon. in Sept. East Greenwich, 2d Mon. in Mar. and 4th Mon. in Aug.

COURT OF COMMON PLEAS.—At

Newport, 3d Mon. in May and Nov. Providence, 1st Mon. in Mar., June, Sept. and Dec. (Mar. and Sept. terms are for criminal business only.) So. Kingston, 2d Mon. in May, and 1st Mon. in Nov. Bristol, 1st Mon. in May, and last Mon. in Oct. E. Greenwich, 2d Mon. in Apr. and Oct.

COURTS IN MASSACHUSETTS.

SUPREME JUDICIAL COURT OF MASSACHUSETTS — JURY TERMS.—For Barnstable and Dukes Counties, at Barnstable, 1st Tuesday of May, For Berkshire Co., at Pittsfield, 2d Tu. of May. For Bristol Co., at New Bedford, 2d Tu. of Nov.; also at Taunton, 3d Tu. of April. For Essex Co., at Salem, 3d Tu. of April and 1st Tu. Nov. For Franklin Co., at Greenfield, 2d Tu. of April. For Hampden Co., at Springfield, 4th Tu. of April. For Hampshire Co., at Northampton, 3d Tu. of April. For Middlesex Co., at Lowell, 3d Tu. of April; also at Cambridge, 3d Tu. of Oct. For Nantucket Co., at Nantucket, 1st Tu. of July. For Norfolk Co., at Dedham, 3d Tu. of Feb. For Plymouth Co., at Plymouth, 2d Tu. of May. For Suffolk Co., at Boston, 2d Tu. of Sept. and 1st Tuesday of April. For Worcester Co., at Worcester, 2d Tu. of April.

LAW TERMS OF SUPREME JUDICIAL COURT OF MASSACHUSETTS.—A law term for the Commonwealth shall be held at Boston on the first Wednesday of January of each year, which term may be adjourned, from time to time, to places and times most conducive to the despatch of business and the interests of the public; and there shall be entered and determined therein questions of law arising in the counties of Barnstable, Dukes County, Middlesex, Nantucket, Norfolk and Suffolk; and also all questions of law arising in other counties where special provisions are not made therefor.

And law terms of said court shall also annually be held as follows:

At Salem, for Essex Co., 1st Tu. of Nov.

At Pittsfield, for Berkshire Co., 2d Tu. of Sept.

At Springfield, for Hampden Co., 3d Mon. after 1st Tu. of Sept.

At Northampton, for Hampshire and Franklin Cos., Mon., next after 2d Tu. of Sept.

At Worcester, for Worcester Co., 4th Tu. after 1st Tu. of Sept.

At Plymouth, for Plymouth Co., 3d Tu. of Oct.

At Taunton, for Bristol Co., 4th Tu. of Oct.

SUPERIOR COURT OF MASSACHUSETTS.—For Essex Co., (civil) at Salem, 1st Monday of June and Dec.; at Lawrence, 1st Monday of March, and at Newburyport, 1st Monday of Sept.; (crim.) at Lawrence, 1st Mon. of Oct., at Newburyport, 2d Mon. of May, and at Salem, 4th Mon. of Jan.

For Middlesex Co., (civil) at Lowell, 2d Monday of March and 1st Monday of Sept.; at Cambridge, 1st Monday of June and 2d Monday of Dec.; (crim.) at Cambridge, 2d Monday of Feb., and 4th Mon. of June; and at Lowell, 3d Mon. of Oct.

For Hampshire Co., at Northampton, (civil) 3d Mon. of Feb., 1st Mon. of June, and 3d Mon. of Oct.; (crim.) 2d Mon. of June and 3d Mon. of Dec.

For Franklin Co., at Greenfield, 3d Mon. of March, and 2d Mon. of Aug. and Nov.

For Hampden Co., at Springfield, (civil) 2d Mon. of March and June, and 4th Mon. of Oct.; (crim.) 3d Mon. of May, and 1st Mon. of Dec.

For Berkshire Co., at Pittsfield, (civil) 4th Mon. of Feb., June and Oct.; (crim.) 2d Mon. of Jan. and July.

For Norfolk Co., at Dedham, (civil) 4th Mon. in Apr., Sept., and Dec.; (crim.) 1st Mon. in Apr., Sept., and Dec.

For Plymouth Co., at Plymouth, 2d Mon. of Feb. and June, and 4th Mon. of Oct.

For Bristol Co., at Taunton, 2d Mon. of March and Sept., and at New Bedford, 2d Mon. of June and Dec.

For Suffolk Co., at Boston, (civil) 1st Tu. of Jan., April, July, and Oct.; (crim.) 1st Mon. of every month.

For Barnstable Co., at Barnstable, Tu. next after 1st Mon. of April, and 2d Tu. of Oct.

For Nantucket Co., at Nantucket, 1st Mon. of June and Oct.

For Dukes County, at Edgartown, last Tu. of May and Sept.

For Worcester Co., (civil) at Worcester, 1st Mon. of March, Mon. next after 4th Mon. of Aug., and 2d Mon. of Dec.; and at Fitchburg, 2d Mon. of June and Nov.; (crim.) at Worcester, 3d Mon. of Jan., 2d Mon. of May, and 3d Mon. of Oct.; and at Fitchburg, 2d Mon. of Aug.

PROBATE COURTS IN MASSACHUSETTS.

Suffolk County.—At Boston, every Monday in each month.

Essex County.—At Salem, 1st Mon. of each month, and 3d Mon. of each month, except Aug.; Lawrence, 2d Mon. Jan., Mar., May, June, July, Sept. and Nov. Haverhill, 2d Mon. Apr. and Oct.; Newburyport, 4th Mon. Jan., Mar., May, June, July,

Sept., and Nov.; Gloucester, 4th Mon. April and Oct.

Middlesex County.—At Cambridge, 1st, 2d, and 4th Tu. of each month except Aug.; Lowell, 3d Tu. of Jan., Mar., May, July, Sept., and Nov.

Worcester County.—At Worcester, 1st and 3d Tu. of every month except Aug.; Fitchburg, 4th Tu. of Apr. and

Sept.; Milford, 2d Tu. of April and Sept.; Templeton, 2d Tu. of May and Oct.; and Barre, Wed. next after 2d Tu. of May and Oct.

Hampshire County.—At Northampton, 1st Tu. of every month, Amherst, 2d Tu Jan., Mar., June, Aug. and Nov.; Belchertown, 2d Tu. of May and Oct.; and Williamsburg, 3d Tu. May and Oct.

Hampden County.—At Springfield, 1st Tu. Jan., Feb., March, Apr., May, June, July, Sept., Oct., and Dec.; Palmer, 2d Tu. of Feb., May, and Sept., and 4th Tu. of Nov.; Westfield, 3d Tu. in Feb., May, Sept., and Dec.

Franklin County.—At Greenfield, 1st Tu. in every month, except Nov.; Northfield, 2d Tu. May and Sept.; Orange, 2d Tu. Mar. and Dec., and 3d Tu. June; Conway, 3d Tu. May; Shelburne Falls, 4th Tu. May, 2d Tu. Feb., and 4th Tu. Oct.

Bristol County.—At Taunton, 1st Friday, Mar., June, Sept. Dec.; New Bedford, 1st Friday, Feb., May, Aug., and Nov.; Fall River, 1st Friday Jan., April, Oct., and 2d Fri July.

Nantucket County.—At Nantucket, on Thurs. after 2d Tu. of every month.

Berkshire County.—At Pittsfield, 1st Tu. of Jan., Feb., Mar., Apr., May, June, Sept., Oct., and Dec., 3d Tu. July, and Wed. after 1st Mon. Nov.; Lee, Wed. after 1st Tu. in Jan., Apr., and Oct., and Wed. after 3d Tu. July;

Adams, Thurs. after 1st Tu. Jan. and Oct., Wed., after 1st Tu. March, and Thurs. after 3d Tu. in July; Great Barrington, Wed. after 1st Tu. in Feb., May, Sept., and Dec.

Plymouth County.—At Plymouth, 2d Mon., of every month, except July and Aug.; Wareham, 4th Mon. Oct.; East Bridgewater, 4th Mon. Feb., and Dec.; Hingham, 4th Mon., Mar.; Middleboro', 4th Mon., Apr., and Jan., and 2d Mon. July; Abington, 4th Mon., May, Aug., and Nov.; Hanover, 4th Mon. June; Bridgewater, 4th Mon. Sept.; North Bridgewater, 3d Mon. Apr., and Oct.

Barnstable County.—At Barnstable, 2d Tu. Jan., Feb., Mar., Aug., Sept., Dec., and 3d Tu. Apr., and June; Harwich, 2d Mon. after 1st Tu. May, and Mon. after 3d Tu. Oct.; Orleans, 3d Tu. May and 4th Tu. Oct.; Weymouth, Wed. after 3d Tu. May, and Wed. after 4th Tu. Oct.; Provincetown, Thurs. after 3d Tu. May, and Thurs. after 4th Tu. Oct.; Falmouth, 3d Tu. Nov.

Norfolk County.—At Dedham, 1st and 3d Wed.; Quincy, 2d Wed.; Hyde Park, 4th Wed. every month, except Aug.

Dukes County.—At Holmes' Hole village in Tisbury, 3d Mon. Apr. and 1st Mon. Sept.; Edgartown, 3d Mon. Jan. and July, and 1st Mon. March, and Dec.; West Tisbury, 1st Mon. and June 3d Mon. Oct.

JUDGES OF PROBATE COURTS IN MASSACHUSETTS.

Suffolk Co., Isaac Ames, Boston.
Essex Co., Geo. F. Choate, Salem.
Middlesex Co., Geo. M. Brooks, Concord.
Worcester Co., Henry Chapin, Worcester.
Franklin Co., C. C. Conant, Greenfield.
Bristol Co., Edm. H. Bennett, Taunton.
Plymouth Co., Wm. H. Wood, Middleboro'.
Barnstable Co., Jos. M. Day, Barn-

stable.
Nantucket Co., Thaddeus C. Diefz, Nantucket.
Dukes Co., Joseph T. Pease, Edgartown.
Hampden Co., W. S. Shurtleff, Springfield.
Hampshire Co., Samuel T. Spaulding, Northampton.
Norfolk Co., Geo. White, Newton.
Berkshire Co., J. T. Robinson, No. Adams.

REGISTERS OF BANKRUPTCY IN NEW ENGLAND.

MAINE.

1st District, J. D. Fessenden, Portland.
2d District, John W. May, Auburn.
3d District, vacancy. Duties apportioned as follows: Lincoln and Kennebec Co's, Register May; Somerset and Knox Co's, Register Hamlin.
4th Dist., Charles Hamlin, Bangor.
5th Dist., vacancy. Assigned to Register Hamlin.

NEW HAMPSHIRE.

1st Dist., Thos. E. Sawyer, Dover.
2d Dist., Aaron W. Sawyer, Nashua.
3d Dist., Wm. H. H. Allen, Claremont.

VERMONT.

1st Dist., W. G. Veasey, Rutland.
2d Dist., A. Underwood, Wells River.
3d Dist. { John L. Edwards, Newp't.
 { L. L. Lawrence, Burlington
MASSACHUSETTS.
1st Dist., H. M. Knowlton, New Bedford.
2d Dist., Samuel B. Noyes, Canton.
3d Dist., F. W. Palfrey, Boston.
4th Dist., S. L. Thorndike, Boston.
5th Dist., Benj. C. Perkins, Salem.
6th Dist., E. J. Sherman, Lawrence.
7th Dist., A. F. Jewett, Lowell.
8th Dist., Peter C. Bacon, Worcester.

9th Dist., W. T. Davis, Greenfield.
10th Dist. Gideon Wells, Springfield.

CONNECTICUT.

1st Dist., Henry E. Burton, Hartford.

2d Dist., E. K. Foster, New Haven.
3d Dist., R. Colt, Jr., New London.
4th Dist., L. N. Middlebrook, Bridgeport.

RHODE ISLAND.

John C. Pegram, Providence.

RATES OF POSTAGE.

LETTERS, prepaid by stamps, 3 cts. each $\frac{1}{2}$ oz. or fraction thereof, to all parts of the United States; forwarded to another post office without charge on request of the person addressed; if not called for, returned to the writer free, if endorsed with that request. If the stamp is omitted, the letter is forwarded to the dead-letter office, and returned to the writer. Drop or local letters, 2 cts. each 1-2 oz. at offices where free delivery by carrier is established at other office; 1 c. prepaid by stamps, and all letters and papers delivered in cities free of charge. POSTAL CARDS, 1 ct. each. CIRCULARS, in an unsealed envelope, 1 ct. for each 1 oz. or fraction.

THE POSTAGE ON NEWSPAPERS and PERIODICAL PUBLICATIONS addressed to regular subscribers, must be prepaid by the publishers at the following rates, viz: On those issued weekly and oftener, 2 cts. a pound; on those issued less frequently, 3 cents a pound.

BOOKS.—One cent for each ounce or fraction, not to exceed four pounds in weight; prepaid by postage stamps.

MERCHANDISE.—Samples of metals, ores, minerals, and small packages of merchandise, not exceeding 4 pounds in weight, can now pass through the mails at the rate of one cent for each ounce or fraction.

MISCELLANEOUS.—Including pamphlets, occasional publications, transient newspapers, magazines, handbills, posters, prospectuses, book manuscripts, proof-sheets, corrected proof sheets, maps, prints, engravings, blanks, flexible patterns, sample cards, phonographic paper, letter envelopes, postal envelopes and wrappers, cards, plain and ornamental paper, photographic representations of different types, seeds, cuttings, bulbs, roots, sections, limited to 4 pounds in weight, 1 c. for each 1 oz. or fraction, prepaid by stamps.

MONEY ORDERS.—For any amount not exceeding \$50 on one order, are issued in the principal offices, on payment of the following fees: Orders not exceeding \$15, 10 cts.; over \$15 and not exceeding \$30, 15 cts.; over \$30 and not exceeding \$40, 20 cts.; over \$40 and not exceeding \$50, 25 cts.

FOREIGN LETTERS.—For letters weighing $\frac{1}{2}$ oz. or under to the following countries, viz: Germany, Austria, Hungary, Belgium, Denmark (including Iceland and the Faroe Islands, Egypt, Spain, including the Balearic Isles, the Canary Islands, the Spanish possessions on the northern coast of Africa, and the postal establishments of Spain upon the western coast of Morocco, Great Britain, including the Island of Malta, Greece, Italy, Luxemburg, Norway, The Netherlands, Portugal, including the Island of Madeira and the Azores, Roumania, Russia, including the Grand Duchy of Finland, Servia, Sweden, Switzerland and Turkey, 5c., prepaid. To Aspinwall, 5c. Australia, 21c. Bahamas, 3c. Bolivia, 17c. Borneo, 33c. Buenos Ayres, 23c. Burmah, 17c. Cape of Good Hope, 27c. Canada, 3c. Chili, 17c. China, 27c. Cuba, 5c. East Indies, 5c. Fernando, 15c. Gibraltar, 8c. Hong Kong and Chinese Ports, 10c. Japan, 15c. New South Wales, 12c. Paraguay 23c. Philippine Islands, 27c. Hawaiian, 6c. Spain, 12c. Switzerland, 5c. Tunis, 7c. Venezuela, 10c. West Indies, 5c.

B. W. says, in reply to R. G. R., concerning combustion: Tap the smoke stack twenty feet above the boiler, with an eight-inch sheet iron pipe, lead the pipe so that it will discharge under the fire grate; leave no sharp angles in it; insert a fan blower about six feet from the lower end. Give the fan 800 revolutions per minute, and it will consume the smoke, save a large percentage of fuel, and give a good draft. [This plan is certainly a novel one, and we would be glad to hear something on practical experience with it.—EDS. *Scientific American*.]

"I hold that every good book bought and read in a community, adds to the intelligence and power of that community, and the bookstore where books are sold is a blessing to the community."—*Brumbaugh*.

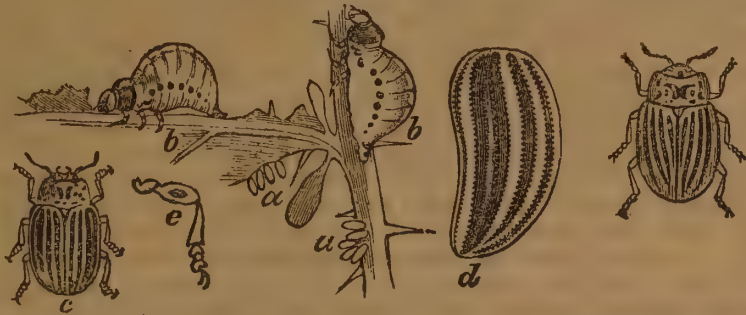
THE COLORADO POTATO BEETLE.

There seems to be but little doubt but that the Colorado potato beetle, or "potato bug," as it is generally called, has made its appearance in New Hampshire. If that is the case, our farmers cannot make themselves acquainted with its distinguishing form and characteristics any too soon. But, if it has not yet made its appearance in the State, there can be but little doubt but that it will before another summer has passed away; therefore, farmers and gardeners should be able to distinguish it from other insects as soon as it does show itself. For these reasons the publisher of this almanac has taken the trouble and expense of procuring of Messrs. *Estes & Lauriat of Boston, Mass.*, publishers of "*Half-Hours Recreation in Natural History*," the following illustration, which exhibits, very plainly, the insect in the different stages of its growth, from the egg to the full grown beetle. The description of the illustration is taken from "*Division First*," of the same work, or "*Half-Hours with Insects*." This work also contains illustrations and descriptions of many other insects injurious to farm and garden products and also of many insects beneficial to farmers, and it should be in the library of every farmer and gardener in the State. It can be found at the bookstore of the publisher of this almanac, E. C. Eastman, Concord, N. H.

"*Doryphora juncta* and *D. 10-lineata*."

FIG. 153.

FIG. 154.

*Doryphora juncta.**D. 10-lineata.*

"These beetles belong to the family of leaf-eating Coleoptera (or Chrysomelidae) of which the common striped squash beetle is a familiar example. It lays its eggs on the leaves of the plant it inhabits in the larva, or grub, and the adult state; while in the pupal, or inactive, period of its existence it lives in the ground, just under the surface of the soil. Figure 153 from Riley, gives an idea of *Doryphora juncta* an ally of the *D. 10-lineata*, in all the different stages. All the drawings are of the size of life except d, a wing cover, and e, representing a leg enlarged; a, represents the yellowish eggs; b, larva full grown and soon after hatching; c, the beetle itself, which is cream-colored, with three black stripes on each wing cover. Figure 154 represents *Doryphora 10-lineata*. The larva is pale yellow, with a reddish tinge, and a lateral row of black dots."

The following account of it (*D. 10-lineata*) is quoted from Mr. Riley's report.

"In the latitude of St. Louis there are three broods during the year, the last brood wintering over in the beetle state under ground. They are usually dug up in the spring of the year in land that had been planted to potatoes the year before. The beetles issue of their own accord from the ground about the first of May, and the last brood of beetles enters the ground to hibernate during the month of October. Though in general terms this beetle may be said to be three brooded, yet it may be found at almost any time of the year in all of its different stages. This is owing to the fact that the female continues to deposit her eggs in patches from time to time, covering a period of about forty days; and also from the fact that among those larvae which hatch out in one day, some will develop and become beetles a week and even ten days earlier than others. Thus it may be that some late individuals of the third brood pass the winter in the pupa state, though the normal habit is to first transform to beetles. Each female is capable of depositing upwards of a thousand eggs before she becomes barren, and in from thirty to forty days from the time they were deposited, they will have produced perfect beetles. These beetles are again capable of depositing eggs in about two weeks after issuing from the ground and thus in about fifty days after the egg is laid, the offspring begins to propagate."

The reader will notice that the insect described under figure 153 is not the true *Doryphora 10-lineata*, the real potato bug, but is the *Doryphora juncta*. They are both of the same family of insects and first cousins, so the description of one answers for the other to common folks. The scientist, however, will point out that the potato bug larva has two rows of black dots on its sides, while the one in the drawing has but one row; the potato bug, or beetle, has also 10 lines on its wing covers, the *D. juncta* only eight. This is all the difference in their looks; so the drawing of one answers for the other in every other respect.

The most effectual means of destroying this troublesome pest is "hand picking." Pick them from the potato vines as soon as they show themselves and crush them under your foot, if they are in the larva state, but burn them if they have become bugs, or beetles, and have wings to fly; for they contain the eggs which crushing on the ground would not be likely to injure.

C.

STATE BOARD OF AGRICULTURE.

The State Board of Agriculture was organized in 1870, by act of the Legislature. The duties of the Board as set forth in the statute are to investigate improvements in agriculture and the kindred arts, cause to be analysed samples of commercial fertilizers, collect and distribute grains and other seeds, and collect and publish agricultural facts and the proceedings of agricultural and horticultural associations in the State. The Board holds from twenty to thirty public meetings each year and annually publishes a volume in regard to the agriculture of New Hampshire.

Members of the Board.

Merrimack, Moses Humphrey, Concord, Chairman; Carroll,

W. H. H. Mason, Moultonboro'; *Cheshire*, S. W. Buffum, Winchester; *Grafton*, Charles F. Kingsbury, Lyme; *Belknap*, Jere W. Sanborn, Lower Gilmanton; *Coos*, Horace F. Holton, Lancaster; *Sullivan*, Edmund Burke, Newport; *Hillsborough*, Benj. F. Hutchinson, Milford; *Rockingham*, John M. Weare, Seabrook; *Strafford*, Moses D. Page, Dover; *Secretary*, James O. Adams, Manchester; *Rooms*, State House, Concord.

Other Agricultural Organizations.

State Agricultural Society—Manchester, Natt Head, Prest.; Aaron Young, Secy. Connecticut River Valley Society—Claremont, Chester Pike, Prest.; D. E. Willard, Secy. Hillsborough County Society—Milford, George A. Wason, Prest.; E. C. Hutchinson, Milford, Secy. Contoocook Valley Society—Hillsboro Bridge, S. F. Burnham, Prest.; Daniel Johnson, Secy. Oak Park Society—Greenfield, D. H. Goodell, Prest.; Joseph Farnum, Secy. Cheshire County Society—Keene, N. W. Hardy, Prest.; C. F. Rowell, Secy. Ashuelot Society—Winchester, S. W. Buffum, Prest.; S. M. Morse, Secy. Merrimack County Society—Concord, Nathaniel White, Prest.; J. E. Lang, Secy. Kearsarge Society—Warner, N. G. Ordway, Prest.; S. C. Pattie, Secy. Strafford County Society—Dover, Luther Hayes, Prest.; E. H. Twombly, Secy. Grafton County Society—Plymouth, J. F. Keyes, Prest.; S. D. Baker, Secy. Mascoma Valley Society—E. Canaan, Peter Kimball, Prest.; C. O. Barney, Secy. Coos County Society—Lancaster, J. W. Hartshorn, Prest.; Geo. H. Emerson, Secy. Nine Towns Society—Walpole, G. B. Williams, Prest.; J. B. Clark, Secy. Bradford and Newbury Society—Bradford, M. W. Tappan, Prest.; C. F. Davis, Secy.

Horticultural Societies exist and hold exhibitions in Exeter, Concord and Nashua. Other Societies holding Fairs are in existence in Chester, Derry, Strafford, Rochester, Canterbury, Westmoreland, Newport, Lempster, Acworth, Washington and Lebanon.

SYSTEMATIC BOOK-BUYING.

"One cigar a day at ten cents is \$36 a year; \$36 a year is"—we are all familiar with the calculation, and have each been astounded in turn to find how closely we missed being *millionaires*. If Methuselah didn't smoke, he must have been a Commodore Vanderbilt before he was half grown up. Some of these arithmetico-economic curiosities become rather a bore, but the fact remains, that to spend, or to save, or to buy, little by little, and as little as you please—but regularly—counts up to a wonderful total in the end. The churches discovered not long ago, that "systematic beneficence," at ten cents a head, was a cure for many chronic financial ills, and everybody knows how "Peter's pence" builds grand cathedrals and mounts up to almost millions of dollars.

Perhaps most readers don't stop to think how easily they can get together a library in small expenditures that scarcely count. The average American of culture sighs always for a library of his own, but he sighs after it too often as a costly luxury that must be a great ways off, unless he gets rich in as much of a

hurry as he would like to. But of all things, a library is a matter of small beginnings. The foundations of some of the finest have been laid with a few dollars. If a boy in college, for instance, saves enough pocket-money to invest in one good book a fortnight, or even a month, he comes out with a nice little nucleus of a hundred or half a hundred books, which are pretty sure to grow into something worth having—and he has that much more all his life, without feeling the cost.

There is much more to be said in favor of systematic book-buying. The sense of ownership is itself a delight. A library is your best piece of furniture. But beyond this, the authorities agree that you can't get the best out of a book until you own it. Some great men, so the autobiographies say, got their start in education from stolen fruit, taken in sips at a bookstore; and they tell of how Daniel Webster was glued to his post for a whole day, over a book he devoured in front of a bookstall. But we warrant they bought the books for themselves as soon as they could. You may go to the circulating library for your novels, but a book that you mean to have enter into your life—own it. One eminent writer lays down the rule: Never read a book that you don't own. Put the book on your shelf, and you have your knowledge doubly.

Now, if the reader will stop to think, he will find that this luxury is by no means denied him, though his income be less than the Duke of Bedford's. There are few who can not buy the standard books they do or should read. An evening at the theatre, a dozen cigars—we don't presume to suggest economy to the ladies!—costs as much as a book that lasts a lifetime. Any one of ordinary earnings can place his dollar here once in a while, and it is surprising how soon he will have a library of his own, that is always a delight, and is, moreover, "intro-converitable" into currency if he finds need. And, if he will buy regularly, he has the start of a library in a single year. Books are the best paying luxury in dull times, and capital investment all the year round.—*Literary News.*

THE KOHL RABI.

This is, comparatively, a new variety of agricultural vegetables. It was hardly known in England previous to the year 1837, and is hardly known in New Hampshire even at the present time. It is a variety of the cabbage family of plants, but is also called "The Hungarian turnip." It appears to be a hybrid between the cabbage and turnip as it has leaves and roots like the cabbage, but a turnip-like bulb just above the roots and above the ground, from which the leaves grow, and from which they separate in the fall of the year after the plant has become ripe, without leaving anything but a scar; so after the cabbage-like root is cut off the bulb is as clean as an apple, and cattle seem to be as fond of them as they are of apples. The outside, or shell, is very hard so they will bear rougher handling than turnips and they will keep much better and longer than turnips or ruta-bagas.

I have grown them for ten or fifteen years. When I first began to grow them I followed the English plan of sowing in a seed

bed very early in the spring and then transplanting them to the land they were to be grown on, as is the general practice with cabbage; but I find transplanting checks their growth and therefore they do better for field cultivation by being planted where they are to grow, sowing them at the same time and cultivating in the same way as ruta-bagas. I find the large white, or green Vienna variety planted at the same time as ruta-bagas grow about as fast and produce about as large a crop as ruta-bagas, and when the roots are cut off, which I do at the time of gathering them, they are so clean and nice I prefer them very much for feeding to horses, cattle, sheep, or swine. Their feeding quality is about the same as ruta-bagas, or a little higher if anything. C.

WEATHER NOTES 1875.

FROM RECORD BY HON. WM. L. FOSTER.

TEMPERATURE. JANUARY 1875.

Days	Min.	Max.	Mean	Days	Min.	Max.	Mean	Days	Min.	Max.	Mean	Days	Min.	Max.	Mean
1	-4	30	13	9	10	22	16	17	-8	18	5	25	10	34	22
2	3	32	17½	10	-10	10	0	18	-7	6	-	26	2	31	10½
3	20	38	29	11	-23	33	5	19	-11	28	8	27	2	30	16
4	2	28	15	12	-21	39	9	20	-26	26	0	28	-11	29	9
5	-5	26	11½	13	-2	22	10	21	-23	15	-6	29	21	34	27½
6	-12	36	12	14	15	18	21½	22	-2	27	12½	30	18	42	30
7	12	26	19	15	-3	13	5	23	-2	35	16½	31	0	28	14
8	21	36	28½	16	-7	13	3	24	-13	15	2				

The average minimum temperature of the month was 1 23.31 degrees *below* zero; being 19 degrees colder than the temperature of January, 1874, and about 13½ degrees colder than the average of the last 19 years.

It was the coldest month of which I have any record, the coldest preceding month being Feb., 1868, when the average minimum temperature was one degree *above* zero.

The average *mean* temperature of this remarkable month was only 12½ degrees above zero, the highest altitude of the mercury having been 42 degrees (Jan. 30,) and the mercury having arisen above the freezing point only nine times during the month.

Between Dec. 24, '74 and March 24 the mercury fell below zero 41 times.

The whole amount of snow fallen during the past winter beginning with Nov. 20th, and ending with April 16, is 103 inches, being 19 inches less than the amount of the previous winter, and 22 inches more than the average.

Table of the number of snow storms and the quantity of snow during the last 19 winters.

No. of Snow Storms	Amount fallen.	No. of Snow Storms	Amount fallen.
1856-7	18 68 inches.	1866-7	20 72 inches.
1857-8	13 51	1867-8	33 85
1858-9	17 83	1868-9	31 85
1859-60	17 89	1869-70	24 86
1860-1	22 110	1870-1	16 39
1861-2	32 97	1871-2	22 68
1862-3	24 89	1872-3	44 115
1863-4	18 54	1873-4	43 122
1864-5	22 76	1874-5	34 103
1865-6	22 46		

During the summer now closed, the mercury has not risen above 90 degrees, though it has attained that figure three times, viz: June 24 and 28, and July 30.

The total rain-fall of the year thus far (9 mos.) is 22.21 inches, being 2.61 less than the rain-fall of the corresponding period last year and 1.66 less than the average of the first three-quarter, during the last 20 years.

TABLE of the Proximate Composition of some Agricultural Plants and Products, with Bousingault's Theoretical Feeding Value of a part of them:

SUBSTANCE.	Water.	Organic matter.	Ash.	Albuminoids.	Carbohydrates, &c.	Crude fiber.	Fat, &c.	Equivalent feeding value.
Good hay, medium quality,	11.3	79.5	6.2	8.2	41.3	30.0	2.0	100
Red clover in full blossom,	16.7	77.1	6.2	13.4	29.9	35.8	3.2	83
" ripe,	16.7	77.7	5.6	9.4	20.3	48.0	2.0	
Timothy hay, (herds grass,)	14.3	81.2	4.5	9.7	48.8	22.7	3.0	
Winter wheat straw,	14.3	81.2	5.5	2.0	30.2	48.0	1.5	235
Winter rye " "	11.3	82.5	3.2	1.5	27.0	54.0	1.3	250
Summer barley " "	14.3	78.7	7.0	3.0	32.7	43.0	1.4	460
Maize straw, (corn fodder)	14.0	82.0	4.0	3.0	39.0	40.0	1.1	
" cobs, (corn cobs)	10.3	83.2	2.8	1.4	41.0	37.8	1.4	
Grass before blossom, (green)	75.0	22.9	2.1	3.0	12.9	7.0	0.8	
" after " "	69.0	29.0	2.0	2.5	15.0	11.5	0.7	
Red clover before blossom, " "	83.0	15.5	1.5	3.3	7.7	4.5	0.7	
" after " "	78.0	20.3	1.7	3.7	8.6	8.0	0.8	
Peas in blossom, " "	81.5	17.0	1.5	3.2	8.2	5.8	0.9	
Oats " " "	81.0	17.6	1.4	2.3	8.8	6.5	0.5	
Rye " " "	79.0	25.5	1.6	3.3	14.9	7.3	0.9	
Hungarian millet, " "	65.6	32.0	2.4	5.9	15.0	11.5	1.5	
Maize, late and August, " "	81.3	14.6	1.1	0.9	8.7	5.0	0.5	
" early, " "	82.2	16.7	1.1	1.1	10.9	4.7	0.5	
Cabbage, " "	89.0	9.8	1.2	1.5	6.3	2.0	0.4	411
Carrot leaves, " "	82.2	14.2	3.6	3.2	8.0	3.0	1.0	135
Potatoes, " "	75.9	24.1	0.9	2.0	21.0	1.1	0.3	319
Jerusalem artichokes, " "	80.0	18.9	1.1	2.0	15.6	1.3	0.5	348
Kohl rabi, " "	98.0	10.8	1.2	2.3	7.3	1.2	0.2	
Field beets, " "	88.0	11.1	0.9	1.1	9.1	0.9	0.1	548
Sugar beets, " "	81.5	17.5	0.8	1.0	15.4	1.3	0.1	
Ruta bagas, " "	87.0	12.0	1.0	1.6	9.3	1.1	0.1	676
Turnips, " "	91.5	7.7	0.8	0.8	5.9	1.0	0.1	885
Winter wheat, " "	14.4	83.6	2.0	13.0	67.6	3.0	1.5	55
" rye, " "	14.3	83.7	2.0	11.0	69.2	3.5	2.0	77
Summer barley, " "	14.3	83.1	2.6	9.5	66.6	7.0	2.5	65
Oats, " "	14.3	82.7	3.0	12.0	60.9	10.3	6.0	60
Maize, (Indian corn) " "	14.4	84.5	2.1	10.0	68.0	5.5	7.0	70
Millet, " "	14.0	83.0	3.0	14.5	62.1	6.4	3.0	
Buck wheat, " "	14.0	83.6	2.4	9.0	59.6	15.0	2.5	55
Peas, " "	14.3	83.2	2.5	22.4	52.3	9.2	2.5	27
Beans, " "	14.5	82.0	3.5	25.5	45.5	11.5	2.0	23
Flax seed, " "	12.3	82.7	5.0	20.5	55.0	7.2	37.0	
" cake, " "	11.5	80.6	7.9	28.3	41.3	11.0	10.0	22
Potato fiber, " "	82.6	17.1	0.3	0.8	15.0	1.3	0.1	

The figures in the last column of the above table are from Bousingault's "Rural Economy," and show that it will take 83 lbs. of red clover hay, cut in full blossom, to be equal to 100 lbs. of good medium hay for feeding cattle, and so on, of the other substances. All the other figures in the table are from a more complete table of the

same form in Prof. S. W. Johnson's "How Crops Grow," which gives the proximate composition of 157 different agricultural plants and products, a table that is worth the price of the book to any farmer. The first column of figures gives the amount of water in 100 lbs. of the air dried, or green substance, accordingly as it is air dried or green. The second column gives the whole amount of the combustible part of the substance. The third column, the amount of ash from burning the substance. The fourth column gives the amount of Albuminoids, that is, the proximate principles of plants that go to form the blood and flesh of animals. The fifth column gives the amount of Carbohydrates &c., that is, the fat, sugar, starch, etc., all, in fact, of organic matter except albuminoids and crude fibre. The seventh column gives the amount of fat, wax, chlorophyl and in some cases resin.

It will be noticed that, generally, those substances that have the largest amount of albuminoids, require the less amount of the substance to be equal to 100 lbs. of hay for feeding, according to Bousingault's theory. Bousingault maintained that the nutritive quality of feeding substances depended upon the quantity of nitrogen they contained, but it has been discovered since he made his table of equivalents, that some plants contain ammoniacal salts, the nitrogen of which would go to swell the amount of nitrogen in the plants, but would afford no nutriment. Merton's Cyclopædia of Agriculture says: "The construction of tables of nutrition is attended with great difficulties, and the estimation of both the theoretical and practical value of feeding substances is liable to mistakes. Notwithstanding the imperfections to which all tables of this description are necessarily liable, they are of considerable practical value, as they are calculated to give us some idea, at least, of the relative feeding value of different kinds of food." C.

It is a well known fact that clover has the singular property of being able to extract from the atmosphere, without the aid of manure or stimulants, nitrogen sufficient for its own proper growth and nourishment. The straw and roots of the clover contain a large amount of nitrogen, and these, when plowed down, are therefore as valuable to the next crop sown as a copious supply of guano.

RIDICULE is a weak weapon when leveled at a strong mind; but common men are cowards, and dread an empty laugh.

We cut the following flattering notice from the *Boston Globe*: "Eastman's book store is one of the Institutions of Concord. Since 1857 the name of E. C. Eastman has been intimately associated with the better class of book trade of this city, and now, after numerous changes and disasters, he offers the public the very best selection of books, illustrating all the higher works of English literature that can be found this side of the large metropolitan book stores. Mr. Eastman has always paid special attention to the purchase of entire private collections of books, and prior to the fire which destroyed his store and stock in 1869, he had some of the rarest and most valuable old books to be found in New England. He has also made a specialty of juvenile books, and as a natural result the approach of the holidays finds his stores filled with customers who find no difficulty in making their selections, no matter how highly cultivated may be the literary taste of the purchaser. When Mr. Eastman moved into his present quarters, the *New Hampshire Statesman* in noticing the change said that 'A good bookstore, well stocked and well arranged is a civilizing influence in any community,' and paid him the deserved compliment of saying that his bookstore was a model of its kind. Notwithstanding the panic and contingent dulness in the booktrade generally, Mr. Eastman has fully sustained his reputation as a first-class bookseller. His shelves are still loaded with the very best of modern books in the freshest of bindings, and the stranger in Concord cannot pass a leisure hour more profitably than by stepping from the popular hostelry, known as the Eagle, into the bookstore in the same building, and looking over a stock of books so large, so well selected, so tastefully arranged and so tempting to the eye, that his hour will be exhausted before he has begun to appreciate all the attractions of this cosy literary retreat. Besides his legitimate business as a bookseller, Mr. Eastman is well known throughout New England as a publisher. His *White Mountain and Sea Coast Guide Books* have attained a very large sale, and wide-spread celebrity, and are appreciated by pleasure travellers as the best written and most accurate itineraries now before the public. His list of books will do credit to a much larger city than Concord."

EDUCATION begins the gentleman, but reading, good company and reflection must finish him.

**USEFUL RECIPES FOR THE SHOP, THE HOUSEHOLD,
AND THE FARM.**

In washing calicoes in which the colors are not fast, be careful not to boil them; but wash in the usual way with soap, and rinse in hard water. For dark colored goods, add a little salt to the water; for light, a little vinegar.

In tempering long taps, to keep them straight, take a bucket of clean water and stir it around with a stick or hammer handle until a center is formed; then plunge the tap, already heated, endwise in the center, allowing it to cool before taking it out of the water.

The following is a simple but sure way to tell good from bad eggs: Put them in water enough to cover them. All that lay flat, as they would on a smooth surface out of water, are good. Those of which the big end rises are bad. The vessel used should have a smooth, level bottom.

In cases of a sudden jar, knock, or jam of the hand or fingers, immediately after the blow press the injured part, with the uninjured hand, say between the thumb and forefinger, and gradually let up on it. It will nearly always remove the pain, and generally any swelling, that might occur under the circumstances.

In making whiffletrees, they will be stronger if the front side of the whiffletree is nearest the heart timber and the back side toward the bark; they will retain their shape longer if the timber be split in this direction, across the grain of the wood.

Dr. Julius Cone has kindly furnished the following recipe of Dr. Brown Sequard's mixture for **EPILEPTIC FITS**. The best thing known. Bromide Potassium, 9 ounces; Bromide Ammonium, 1 ounce; Bi Carbonate Soda, $\frac{1}{2}$ ounce; Tincture Columbo, 18 ounces; Water, $2\frac{1}{2}$ pints. Dose: A teaspoonful after each meal and two teaspoonfuls at bed time.

REMEDY FOR POISON BY IVY.—It seems to me that I read all kinds of cures for ivy poison except the right one. I have always endeavored to keep it before the public, but have failed. It is to dissolve sugar of lead—a bit the size of a hazlenut—in half a teacup of sweet milk or warm water. Apply as warm as can be easily borne with a soft, linty piece of linen rag. Three or four applications are sufficient to effect a cure. If the poison is on the face and nearing the eyes or mouth, this astringent wash may be constantly applied. It is a marvellous cure, and by watching closely one can see the fevered blisters turn from white to yellow during the application. This remedy for ivy poison should prevent a great deal of suffering. It is well where a member of a family is easily poisoned to keep sugar of lead in the house all the time. Let it be labelled and kept where it can be found the moment it is wanted. Keep it well wrapped up, that it may not lose its strength.—*Cor. Ohio Farmer.*

TO DESTROY ROSE SLUGS.—A correspondent of the *Country Gentleman* reports that nothing will so thoroughly destroy rose slugs as wood ashes. The ashes must be sifted on early in the morning while the leaves are damp, the branches being turned over carefully, so that the under sides of the leaves to which the young slugs cling may get their share of the siftings.

ODDS AND ENDS.

THE OLD HOMESTEAD.

It may be small and poor and lowly,
 yet
 We love it always; memory may fill
 Her chambers full, and time and care
 may chill
 Our hearts, yet stands the dear old
 homestead set
 In picture that we never can forget.
 At sudden thought of it our eyes will
 fill;
 When we are old, we journey to it
 still;
 Though strangers live in it, our lov-
 ing debt
 We pay the same.

I think it is like this
 That saints in Heaven, though no joy
 they miss,
 Look back upon the planet earth,
 And come, upon our bright and sunny
 days,
 Swift winged, flying down to gaze
 On this old homestead, where they
 had their birth.

—H. H. in *Independent*.

The made of awl work—Boots.

The book for pedestrians—Walker's Dictionary.

Men tire themselves in pursuit of rest.

We sometimes meet an original gentleman, who, if manners had not existed, would have invented them.

Faith evermore overlooks the difficulties of the way, and beads her eyes only to the certainty of the end.

Why do white sheep eat more than black sheep? Because there are more of them.

To a squire who was boasting of his horse's speed, Foote, the witty comedian, replied: "Pooh! my horse will stand faster than yours will gallop."

Few habits are more injurious than musing, which differs from thinking, as pacing one's chamber differs from walking abroad.

Mrs. Shoddy puckered up her mouth genteelly and told a gentleman friend that one of her lovely daughters was a "blunet," and the other "bronze."

A little girl who had great kindness of heart for all the animal creation, saw a hen preparing to gather her chickens under her wings, and shouted earnestly: "O! don't sit down on these beautiful birds, you great ugly rooster!"

"Six feet in his boots!" exclaimed Mrs. Partington, "what will the impudence of this world come to, I wonder. Why they might as well tell me the man had six heads in his hat."

A promising youth of nine summers, in Western Massachusetts, at a school, relieved his over-burdened mind as follows:

"Lord of love, look down from above,
 Upon us little scholars;
 We have a fool to teach our school,
 And pay her twenty dollars."

He was sucking a cigar on a street car, where there were ladies. Of course he was a gentleman(?) A lady took out her purse, and handed ten cents to the smoker. What's this for? said he. It's to buy you a good cigar when you smoke in the presence of ladies. He quit suddenly.

At High Falls, New York, the other day, a young lady while crossing the field was knocked down by a ram, and the next time the damaged damsel saw her lover she informed that astonished youth that he might go about his business, as she was disgusted with the sex.

A professor asked his class: "What is the aurora?" A student, scratching his head, replied: "Well, Professor, I did know; but I have forgotten." "Well, that is a d. very sad," rejoined the Professor. "The only man in the world that ever knew has forgotten it."

A Frenchman, after some weeks of experience in an American boarding-house, thinks the art of cooking must be one of the "lost arts" in this country. And as he sees pies three times a day on the table, and sometimes four kinds at once, he says that decidedly Americans are too piously inclined. He longs for soup, bread that is bread, and many other things. Better, he says, to have less political liberty and more rational *cuisine* privileges; less religious sects and a greater variety of sauces.

And when a man gets up in the dead of the night to shut down the windows, he never misses the rocking chair. It is the rear end of one of the rockers which catches him. It is a dreadful agony. But he rarely cries out. He knows his audience too well. A woman never falls over a rocking chair, and she will never understand why a man does. But she can never tell whether he has by the way he puts down the windows when he finally reaches them. A rocking chair window (if we may be allowed the term) can be heard three times as far as any other.

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